



General Schedule of Events

Opening Plenary Session

Concurrent Symposia Sessions

Poster Sessions

National Graduate Student
Research Conference

FARE Award Ceremony

Special Exhibits on Resources for
Intramural Research

TSA Research Festival Exhibit
Show

Clinical Center Tours

Research Festival Committees

Past Research Festivals

2013 Research Festival General Schedule

Monday, October 7 • Tuesday, October 8 • Wednesday, October 9 • Thursday, October 10 • Friday, October 11

Monday, October 7, 2013 — Masur Auditorium, Building 10

9:15 a.m. – 11:15 a.m.

Opening Plenary Session

60 years onward: The double helix in the Clinical Center

Monday, October 7, 2013

11:30 a.m. – 1:00 p.m.

Poster Session I (NGSRC)

FAES Academic Center (Upper-Level Terrace)

11:30 a.m. – 1:00 p.m.

Special Exhibits on Resources for Intramural Research

Building 10 (First-Floor Hallway)

1:00 p.m. – 2:00 p.m.

David E. Barmes Global Health Lecture

Bill Gates, Co-chair and Trustee of the Bill and Melinda Gates Foundation

Masur Auditorium (Videocast Overflow in Lipsett Amphitheater)

2:00 p.m. – 4:00 p.m.

Concurrent Symposia Session I

FAES Academic Center (Lower-Level Classrooms)

- [Stem cells in development and diseases](#) - Lipsett Amphitheater
- [Cardiovascular genetics I](#) - Classrooms 1 & 2
- [Advances in natural product research](#) - Classroom 3
- [Genes and pathway discovery in the context of human disease](#) - Classroom 4
- [Neurogenetic analysis of behavioral circuits](#) - Classrooms 6 & 7

4:00 p.m. – 6:00 p.m.

Poster Session II with Scientific Directors' Posters and Cooking Contest

FAES Academic Center (Upper-Level Terrace)

- Cancer Biology
- Molecular Biology
- Neuroscience
- Scientific Directors

4:00 p.m. – 6:00 p.m.

Special Exhibits on Resources for Intramural Research
Building 10 (First-Floor Hallway)

Tuesday, October 8, 2013

9:00 a.m. – 9:45 a.m.

Clinical Center Tour
Clinical Center Atrium

9:00 a.m. – 1:00 p.m.

NIH Green Labs Fair and Exhibit
Building 10 (South Lobby)

10:00 a.m. – Noon

Concurrent Symposia Session II
FAES Academic Center (Lower-Level Classrooms)

- [Pain and nociception: From patients to molecules](#) - *Masur Auditorium*
- [Cardiovascular genetics II](#) - *Classrooms 1 & 2*
- [Therapeutic-viral mediated gene delivery in the 21st century](#) - *Classroom 3*
- [T cell development, aging, and thymus regeneration](#) - *Classroom 4*
- [Myeloid-derived suppressor cells in autoimmunity, inflammation, and cancer](#) - *Classrooms 6 & 7*
- [Glycobiology of immunity and infection](#) - *Classroom 8*

Noon – 2:00 p.m.

Poster Session III
FAES Academic Center (Upper-Level Terrace)

- Biological Engineering
- Cell Biology
- Chemical Biology
- Epigenetics
- Molecular Pharmacology
- Research Support Services

Noon – 2:00 p.m.

Special Exhibits on Resources for Intramural Research
Building 10 (First-Floor Hallway)

Noon – 2:00 p.m.

Lunch
Building 10 (Southeast Patio, near Lipsett Amphitheater)

2:00 p.m. – 4:00 p.m.

Concurrent Symposia Session III
FAES Academic Center (Lower-Level Classrooms)

- [The role of proteostasis \(protein homeostasis\) in health and disease](#) - *Lipsett Amphitheater*
- [Commercial development of my own research](#) - *Classrooms 1 & 2*
- [Optogenetic manipulation of neural circuits and behavior](#) - *Classroom 3*
- [The chemical biology of nucleic acid synthesis, modification, and detection](#) - *Classroom 4*
- [Eosinophils: Novel perspectives in health and disease](#) - *Classrooms 6 & 7*

4:15 p.m. – 6:00 p.m.

FARE Awards Ceremony and Reception
Masur Auditorium

Wednesday, October 9, 2013

9:00 a.m. – 9:45 a.m.

Clinical Center Tour
Clinical Center Atrium

10:00 a.m. – Noon

Poster Session IV

FAES Academic Center (Upper-Level Terrace)

- Chromosome Biology
- Clinical Research
- Genetics and Genomics
- Microbiology and Infectious Disease
- Social and Behavioral Sciences
- Stem Cell Biology

10:00 a.m. – Noon

Special Exhibits on Resources for Intramural Research

Building 10 (First-Floor Hallway)

11:30 a.m. – 1:30 p.m.

Lunch

Building 10 (Southeast Patio, near Lipsett Amphitheater)

Noon – 2:00 p.m.

Concurrent Symposia Session IV

FAES Academic Center (Lower-Level Classrooms)

- [Epigenetic regulation and chromosome transmission in health and disease - Masur Auditorium](#)
- [What are the Stadtman recruits up to? - Classrooms 1 & 2](#)
- [Molecular mechanisms of aging - Classroom 3](#)
- [Translating clinical and population discoveries into improved prediction risk - Classroom 4](#)
- [GPCR signaling mediated by PDZ-GEFs during development and in adult central nervous system signaling - Classrooms 6 & 7](#)
- [One million babies are not breastfed each year: Perspectives on breastfeeding and infant nutrition - Classroom 8](#)

2:00 p.m. – 4:00 p.m.

Poster Session V

FAES Academic Center (Upper-Level Terrace)

- Computational Biology
- Developmental Biology
- Health Disparities
- Immunology
- Structural Biology
- Systems Biology
- Virology

2:00 p.m. – 4:00 p.m.

Special Exhibits on Resources for Intramural Research

Building 10 (First-Floor Hallway)

Thursday, October 10, 2013

9:30 a.m. – 3:30 p.m.

Technical Sales Association (TSA) Research Festival Exhibit Tent Show

Parking Lot 10H

Friday, October 11, 2013

9:30 a.m. – 2:30 p.m.

Technical Sales Association (TSA) Research Festival Exhibit Tent Show

Parking Lot 10H



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Opening Plenary Session: 60 years onward: The double helix in the Clinical Center

Monday, October 7, 2013

9:15 a.m. – 11:15 a.m. **Masur Auditorium, Building 10**

Co-chairs

- Luigi Ferrucci, Scientific Director, NIA
- Daniel Kastner, Scientific Director, NHGRI

Program

This year marks the 60th anniversary of both the publication of the double helical structure of DNA and the opening of the NIH Clinical Center. Since 1953, there have been remarkable advances in our understanding of the genetics and genomics of human disease, many of which have been catalyzed by research conducted by NIH intramural investigators at the Clinical Center. In this session NIH Director Francis Collins and Clinical Center Director John Gallin will give their own perspectives on some of the milestones of the last 60 years. In addition, three intramural investigators – Daniel Kastner, Julie Segre, and Neal Young – will discuss the impact of research conducted at the Clinical Center in their own fields of investigation and their vision for the next 60 years of molecular medicine at the NIH.

- Welcome and Opening Remarks - *Dr. Francis Collins, Director, NIH*
- Introduction of Clinical Center Research - *Dr. John Gallin, Director, NIH Clinical Center*
- "A case of pernicious anemia" - *Neal Young, Director, Center for Human Immunology and Inflammation, NIH*
- "Bacterial DNA sequencing as a powerful new microscope in the modern hospital" - *Julie Segre, Senior Investigator, NHGRI*
- "The genomics of inflammation at the Clinical Center: A quarter century and counting" - *Daniel Kastner, Scientific Director, NHGRI*



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Concurrent Symposia Sessions

Concurrent Symposia Session I • Concurrent Symposia Session II • Concurrent Symposia Session III • Concurrent Symposia Session IV

Concurrent Symposia Session I

Monday, October 07, 2013 — 2:00 p.m. – 4:00 p.m. — FAES Academic Center

Stem cells in development and diseases
Chair: Steven Hou, NCI

FAES Academic Center
(Lipsett Amphitheater)

Genomics of cardiovascular disease and its risk factors I: From discovery to
biology to the clinic
Chair: Christopher O'Donnell, NHLBI

FAES Academic Center
(Classrooms 1 & 2)

Advances in natural product research
Chair: John Williamson, NCCAM

FAES Academic Center
(Classroom 3)

Genes and pathway discovery in the context of human disease
Co-chairs: Scott Martin, NCATS; and Natasha Caplen, NCI

FAES Academic Center
(Classroom 4)

Neurogenetic analysis of behavioral circuits
Co-chairs: Harold Burgess, NICHD; and Kevin Briggman, NINDS

FAES Academic Center
(Classrooms 6 & 7)

Concurrent Symposia Session II

Tuesday, October 08, 2013 — 10:00 a.m. – 12:00 p.m. — FAES Academic Center

Pain and nociception: From patients to molecules
Chair: Mark Hoon, NIDCR

FAES Academic Center
(Masur Auditorium)

Genomics of cardiovascular disease and its risk factors II: From discovery to
biology to the clinic
Co-chairs: Christopher O'Donnell, NHLBI; and Leslie Biesecker, NHGRI

FAES Academic Center
(Classrooms 1 & 2)

Therapeutic-viral mediated gene delivery in the 21st century

FAES Academic Center

Chair: Maribeth Eiden, NIMH

(Classroom 3)

T cell development, aging, and thymus regeneration
Co-chairs: Nan-ping Weng, NIA; and Paul Love, NICHD

FAES Academic Center
(Classroom 4)

Myeloid-derived suppressor cells in autoimmunity, inflammation and cancer
Chair: Tim Greten, NCI

FAES Academic Center
(Classrooms 6 & 7)

The glycobiology of immunity and infection
Chair: Pamela Marino, NIGMS

FAES Academic Center
(Classroom 8)

Concurrent Symposia Session III

Tuesday, October 08, 2013 — 2:00 p.m. – 4:00 p.m. — FAES Academic Center

The role of proteostasis (protein homeostasis) in health and disease
Co-chairs: Andras Orosz, NIAAA; and Jay Chung, NHLBI

FAES Academic Center
(Lipsett Amphitheater)

Commercial development of my own research discoveries: More personal stories
Of former NIH scientists
Co-chairs: Steven Ferguson, OD; and Todd Chappell, OD

FAES Academic Center
(Classrooms 1 & 2)

Optogenetic manipulation of neural circuits and behavior
Chair: Lex Kravitz, NIDDK

FAES Academic Center
(Classroom 3)

The chemical biology of nucleic acid synthesis, modification, and detection
Chair: Daniel Appella, NIDDK

FAES Academic Center
(Classroom 4)

Eosinophils: Novel perspectives in health and disease
Co-chairs: Helene Rosenberg, NIAID; and Amy Klion, NIAID

FAES Academic Center
(Classrooms 6 & 7)

Concurrent Symposia Session IV

Wednesday, October 09, 2013 — 12:00 p.m. – 2:00 p.m. — FAES Academic Center

Epigenetic regulation and chromosome transmission in health and disease
Chair: Mirit Aladjem, NCI

FAES Academic Center
(Masur Auditorium)

What are the Stadtman recruits up to?
Co-chairs: L. Michelle Bennett, NHLBI; and Roland Owens, OD

FAES Academic Center
(Classrooms 1 & 2)

Molecular mechanisms of aging
Co-chairs: Francesca Macchiarini, NIAID; and Ron Johnson, NCI

FAES Academic Center
(Classroom 3)

Translating clinical and population discoveries into improved prediction of risk for
disease prevention and improvement of health
Co-chairs: Sholom Wacholder, NCI; and Tamara Harris, NIA

FAES Academic Center
(Classroom 4)

GPCR signaling mediated by PDZ-GEFs during development and in adult central nervous system signaling
Chair: Lee Eiden, NIMH

**FAES Academic Center
(Classrooms 6 & 7)**

One million babies are not breastfed each year: Perspectives on breastfeeding and infant nutrition
Chair: Tonse Raju, NICHD

**FAES Academic Center
(Classroom 8)**

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Poster Session I

Monday, October 7, 2013 — 11:30 a.m. – 1:00 p.m. — FAES Academic Center (Upper-Level Terrace)

NIH National Graduate Student Research Conference Poster Session

Poster Session II

Monday, October 07, 2013 — 4:00 p.m. – 6:00 p.m. — FAES Academic Center (Upper-Level Terrace)

Scientific Directors Poster Session

Mesothelin-targeted immunotoxin R205 has activity against triple negative breast cancer Author(s): CC Alewine, I Pastan	NCI	CANCER-1
Powering Proteomic Research with Automated Capillary Immunoassays Author(s): J-Q Chen, MA Herrmann	NCI	CANCER-2
Atg7- and Keap1-dependent autophagy protects breast cancer cells against mitoquinone-induced oxidative stress Author(s): Y Gonzalez-Berrios, B Aryal, L Chehab, VA Rao	FDA/CBER	CANCER-3
Systematic analysis of potential targets for immunotherapy in acute myeloid leukemia Author(s): M Goswami, M Bhagwat, L Young, HM Sardon, AL Williams, JP McCoy, S Ito, SA Strickland, BN Savani, JW Fraser, H Sadrzadeh, AT Fathi, L Qin, A Hess, BD Smith, JE Karp, AJ Barrett, CS Hourigan	NHLBI	CANCER-4
ATM-deficiency in the absence of T cells promotes the development of B cell lymphomas with dependence on NF-kB Author(s): KS Hathcock, H Padilla-Nash, J Camps, D Triner, D-M	NCI	CANCER-5

Rap2b, a novel p53 downstream target, promotes cell survival after DNA damage Author(s): Y He, X Zhang, M Li, W Dubois, A Kovalchuk, X Wu, J Huang	NCI	CANCER-6
Mechanisms of nitric oxide synthase-2 (NOS2) induction and downstream signaling in breast cancer Author(s): JL Heinecke, LA Ridnour, RY Cheng, CH Switzer, MM Lizardo, C Khanna, S Glynn, SP Hussain, H Young, S Ambs, DA Wink	NCI	CANCER-7
Function of the ARH Family of ADP-ribose-acceptor Hydrolases Author(s): J Kato, M Mashimo, X Bu, H Endo, J Moss	NHLBI	CANCER-8
Activation of endothelial genes for reactive oxygen species (ROS) generation promotes metastasis in a preclinical model Author(s): CK Lee, CP Day, AM Michalowski, M Hollingshead, G Merlino	NCI	CANCER-9
Analysis of C/EBPdelta Functions as a Candidate Tumor Suppressor in Hormone Receptor Positive Breast Cancer Author(s): D Mendoza-Villanueva, S Kim, H Raza Ali, B Kuppusamy, S Sharan, T Sarkar, C Caldas, E Sterneck	NCI	CANCER-10
Ibrutinib Inhibits B-cell Adhesion in Chronic Lymphocytic Leukemia Patients Leading to a Transient Treatment Induced Lymphocytosis Author(s): RZ Mustafa, SE Herman, M Farooqui, N Saba, JE Jones, A Wiestner	NHLBI	CANCER-11
Discovery of novel, potent, small molecule inhibitors of nuclear factor erythroid-2 related factor 2 (Nrf2)-mediated gene transcription for the treatment of cancer Author(s): J Rohde, Y Zhang, A Singh, L Liu, S Venkannagari, N Thorne, M Ferrer, Z Li, M Shen, S Biswal, M Boxer	NCATS	CANCER-12
Relationship between gender and cardiotoxicity following doxorubicin treatment in spontaneously hypertensive rats Author(s): ET Rosen, Y Gonzalez-Berrios, JS Dickey, L Chehab, B Aryal, EH Herman, VA Rao	FDA/CBER	CANCER-13
BCL-XL and IL-6 act independently and synergistically to accelerate plasmacytopoiesis and plasma cell tumor formation in BALB/cAn mice Author(s): T Sakai, AL Kovalchuk, W Dubois, CF Qi, Z Naghashfar, D-M Shin, HC Morse III, M Potter	NIAID	CANCER-14
Large Deletions of the PRKAR1A Gene in Carney Complex Author(s): P Salpea, A Horvath, E London, A Vetro, A Manning, E Gourgari, M Keil, A Forlino, O Zuffardi, CA Stratakis	NICHD	CANCER-15

<p>PI3K/AKT/mTORC1-signaling pathway plays a role in induction of autophagy by type I interferons</p> <p>Author(s): H Schmeisser, SB Fey, J Horowitz, ER Fischer, CA Balinsky, K Miyake, J Bekisz, AL Snow, KC Zoon</p>	NIAID	CANCER-16
<p>Assessment of Bio-distribution of Interleukin-13 Pseudomonas Exotoxin, A Targeted Agent for Interleukin-13 Receptor Expressing Brain Tumor by SPECT/CT Analysis in vivo</p> <p>Author(s): A Suzuki, P Leland, PL Choyke, T Inoue, H Kobayashi, BH Joshi, RK Puri</p>	FDA/CBER	CANCER-17
<p>SDHB-deficient GISTs and GISTS associated with Carney Triad reveal abnormal mitochondrial ultrastructure: a comparative study including observations in heterozygous Sdhb-deficient mice</p> <p>Author(s): E Szarek, M Tsokos, A Giubellino, M Abu-Asab, E Ball, L Dye, P Xekouki, F Faucz, K Pacak, J Carney, CA Stratakis</p>	NICHD	CANCER-18
<p>Epigenetic Repression of miR-217 Contributes to Tobacco-Induced Esophageal Carcinogenesis</p> <p>Author(s): S Xi, S Inchauste, H Guo, J Shan, Z Xiao, M Zhang, JA Hong, SO Oyetunji, DG Beer, DS Schrupp</p>	NCI	CANCER-19
<p>Heterogeneity of response to anti-TGF-β antibody therapy in preclinical models</p> <p>Author(s): Y Yang, J Weng, M Welsh, D Weinberg, D Luger, N Guan, M Shan, J Webster, KC Flanders, SM Lonning, J McPherson, LM Wakefield</p>	NCI	CANCER-20
<p>p53 mutations in Li-Fraumeni syndrome can cause a gain-of-function in metabolism and affect tumorigenesis</p> <p>Author(s): J Zhuang, C Lago, J Kang, PM Hwang</p>	NHLBI	CANCER-21
<p>A novel glucose stimulated network: IA-2 beta, miR-153 and its target genes</p> <p>Author(s): L Abuhatzira, W Mandemakers, H Xu, T Cai, B De Strooper, AL Notkins</p>	NIDCR	MOLBIO-1
<p>Carbonylated cardiac myosin binding protein as a potential biomarker of doxorubicin-induced cardiotoxicity</p> <p>Author(s): B P Aryal, J Jeong, V A Rao</p>	FDA/CBER	MOLBIO-2
<p>Cytolethal distending toxin B from Haemophilus ducreyi delivered by anthrax toxin fusion proteins inhibit tumor cell growth</p> <p>Author(s): CH Bachran, R Hasikova, S Liu, SH Leppla</p>	NIAID	MOLBIO-3
<p>Chromatin Structural Changes Induced by the Tissue-Specific Enhancer</p> <p>Author(s): JD Bennett, A Ghosh, S De, K Becker, R Sen</p>	NIA	MOLBIO-4
<p>The Imaging Probe Development Center is a synthetic chemistry core facility</p> <p>Author(s): F Bhattacharyya, A Opina, D Sail, N Shenoy, Z-D Shi, A Sulima, H Wu, B Xu, V Coble, K Lane, C Li, K Lincoln, M Cherukuri, J Mitchell, O Vasalatiy</p>	NHLBI	MOLBIO-5

Your siRNA results are probably rubbish Author(s): EC Buehler, Y Chen, SE Martin	NCATS	MOLBIO-6
Simplagrin, a salivary collagen-induced platelet aggregation inhibitor from blackfly <i>Simulium nigricornum</i> displays an unusual elongated form and inhibits carotid thrombus formation in vivo Author(s): AC Chagas, P McPhie, H Sun, D Narum, FA Tokomasu, LC Alves, F Brayner, JM Ribeiro, E Calvo	NIAID	MOLBIO-7
Characterization of small molecule for ATAD5 destabilizer Author(s): Y Choi, J Fox, K Myung	NHGRI	MOLBIO-8
Dependence of Apolipoprotein C-III membrane binding properties on lipid composition and membrane curvature Author(s): M de Messieres, Y He, J C Lee	NHLBI	MOLBIO-9
Effects of ethanol drinking on protein expression in rat amygdala studied by quantitative proteomics using dimethyl labeling Author(s): Z-M Ding, WJ McBride, H-Y Kim	NIAAA	MOLBIO-10
CREB-regulated transcription coactivator 2 (CRTC2) is a coregulator of the progesterone and glucocorticoid receptor Author(s): MJ Hill, JH Segars, T Kino	NICHD	MOLBIO-11
Mutations in intracellular loop 3 affect the proper packing of human P-glycoprotein and lead to misfolding of this ABC transporter Author(s): K Kapoor, J Bhatnagar, E Chufan, SV Ambudkar	NCI	MOLBIO-12
Neuroprotective activity of Pigment Epithelium-derived Factor derived therapeutics Author(s): JD Kenealey, P Subramanian, SP Becerra	NEI	MOLBIO-13
Effects of SRT1720 (SRT) and Resveratrol (RSV) on AMP-activated protein kinase (AMPK) and PKA-signaling in Adipocytes: Roles for Phosphodiesterase (PDE) (3 and 4) Author(s): FA Khan, S Park, JH Chung, VC Manganiello	NHLBI	MOLBIO-14
Bone marrow transplantation in heme oxygenase-1 deficient mouse: presentation of curative effects and analysis of the mechanisms Author(s): G Kovtunovych, MC Ghosh, H Ollivierre-Wilson, RP Weitzel, MA Eckhaus, JF Tisdale, TA Rouault	NICHD	MOLBIO-15
Low-density lipoprotein receptor-related protein catabolizes Factor VIII and Factor VIIIa using different modes of interaction Author(s): JH Kurasawa, SA Shestopal, TK Lee, AG Sarafanov	FDA/CBER	MOLBIO-16
Uncovering the in vivo function of the Hsp90 homolog in <i>Escherichia coli</i> Author(s): M Mouton, M C O'Neil, M J O'Neil, M J O'Neil	NCI	MOLBIO-17

[NEIL1 and other BER proteins respond and bind to psoralen-induced DNA interstrand crosslinks and additional types of laser induced DNA damage](#) **NIA** **MOLBIO-18**
 Author(s): DR McNeill, M Paramasivam, J Baldwin, J Huang, VN Vyjayanti, MM Seidman, DM Wilson III

[Targeted covalent modification of the A2A adenosine receptor by acyl transfer](#) **NIDDK** **MOLBIO-19**
 Author(s): SM Moss, PS Jayasekara, S Paoletta, ZG Gao, KA Jacobson

[AUF1 promotes myogenesis by enhancing Myf5 and Mef2c expression](#) **NIA** **MOLBIO-20**
 Author(s): AC Panda, K Abdelmohsen, E Mercken, JL Martindale, R de Cabo, M Gorospe

[Targeting of lentiviral vectors mediated by RNA aptamers](#) **FDA/CBER** **MOLBIO-21**
 Author(s): M Panigaj, M Marino, J Reiser

[Elevated Circulating miRNA150 and miRNA342-3p in Patients with Irritable Bowel Syndrome](#) **NINR** **MOLBIO-22**
 Author(s): RM Peace, R Longchamps, A Martino, B Majors, WA Henderson

[Human PDE3A regulates the expression of anti-oxidant genes by controlling Yap1p oxidation in yeast](#) **NHLBI** **MOLBIO-23**
 Author(s): DK Rhee, JC Lim, S Hockman, F Ahmad, S Liu, A Hockman, V Manganiello

[Small peptides from PEDF-R bind and inhibit lipoxigenase](#) **NEI** **MOLBIO-24**
 Author(s): P Subramanian, S P Becerra

[Distinct Profiles of Vitreous micro RNA in Primary Vitreoretinal Lymphoma and Uveitis](#) **NEI** **MOLBIO-25**
 Author(s): J Tuo, D Shen, CC Chan

[Functional coupling between non-cholinergic basal forebrain neurons and midbrain dopaminergic neurons](#) **NIA** **NEURO-1**
 Author(s): I Avila, S-C Lin

[A circuit breaking screen identifies gsx1 expressing neurons as modulators of the startle response](#) **NICHD** **NEURO-2**
 Author(s): SA Bergeron, N Carrier, G Li, HA Burgess

[Imaging Molecules at Synapses with Mini-SOG Constructs](#) **NINDS** **NEURO-3**
 Author(s): X Chen, P Gallant, C Winters, M Lazarou, X Li, R Youle, A Sousa, R Leapman, T Reese

[NIMH Magnetoencephalography Core Facility](#) **NIMH** **NEURO-4**
 Author(s): R Coppola, T Holroyd, F Carver, S Robinson, J

Brain imaging research and support at the Scientific and Statistical Computing Core
Author(s): RW Cox

NIMH

NEURO-5

Studies on the effect of n-3 fatty acid depletion on recovery from traumatic brain injury
Author(s): A Desai, J Barnes, K Kevala, HY Kim

NIAAA

NEURO-6

Chronic social stress induces mitochondrial DNA mutation and mitochondrial dysfunction in mouse brains
Author(s): KZ Duan, X Liu, T Ni, J Zhu, Z Li

NIMH

NEURO-7

Intelligence is differentially related to cortical thickness and surface area
Author(s): IW Eisenberg, BA Orionzi, A Martin, GL Wallace

NIMH

NEURO-8

Interactive Effects of Tolcapone and Catechol-O-methyltransferase (COMT) Val158Met Polymorphism on Neural Circuits Underlying Emotion Processing
Author(s): ND Fogleman, CJ Li, R Rasetti, B Kolachana, Q Chen, KF Berman, DR Weinberger, VS Mattay, JA Apud

NIMH

NEURO-9

Gβγ protein activation promotes dopamine efflux through the Dopamine Transporter
Author(s): J Garcia-Olivares, GE Torres, SG Amara

NIMH

NEURO-10

Tyrosine hydroxylase is locally synthesized in the axons of noradrenergic sympathetic neurons
Author(s): NM Gervasi, SN Vohra, MA MacGibeny, M Patel, AN Kar, AE Gioio, BB Kaplan

NIMH

NEURO-11

miRNAs are required for long-lasting spine remodeling associated with LTD
Author(s): Z Hu, D Yu, Q Gu, Y Yang, J Zhu, Z Li

NIMH

NEURO-12

A novel in vitro peripheral nervous system myelination model
Author(s): BS Jha, N Malik, M Rao

NIAMS

NEURO-13

Longitudinal investigation of IT cortex: probing category selectivity with 10,000 stimuli
Author(s): AP Jones, DA Leopold, DBT McMahon

NIMH

NEURO-14

Dysregulation of the Axonal Trafficking of Nuclear-encoded Mitochondrial mRNA alters Mitochondrial Activity and Mouse Behavior
Author(s): A N Kar, C Sun, K Reichard, J Pickel, K Nakazawa, A E Gioio, B B Kaplan

NIMH

NEURO-15

Capturing dynamic patterns of task-based functional connectivity with EEG

NICHD

NEURO-16

Author(s): N Karamzadeh, A Medvedev, A Azari, A Gandjbakhche, L Najafizadeh

A Hard-wired Glutamatergic Circuit Pools Dim UV Signals to Mediate Spectral Preference in *Drosophila* Visual System
Author(s): T Karuppururai, TY Lin, CY Ting, CH Lee

NICHD

NEURO-17

Ethanol impairs synaptamide-mediated neural stem cells differentiation
Author(s): H-Y Kim

NIAAA

NEURO-18

Effects of a D2R antagonist on changes in cross-frequency power coupling related to the trade-off between attention demanding and automatic processes in frontal-striatal circuits
Author(s): E Lee, S Moon, O Dal Monte, BB Averbeck

NIMH

NEURO-19

Impaired stimulus-reinforcement based decision making as indexed by the passive avoidance learning task in patients with Generalized Anxiety Disorder (GAD)
Author(s): EJ Lewis, M Geraci, RJR Blair, DS Pine, KS Blair

NIMH

NEURO-20

Spatial Distribution of Brain Microhemorrhage Resulting from Traumatic Brain Injury (TBI)
Author(s): N Li, Y Chou, D Joy, L Chan, DL Pham, JA Butman

CC

NEURO-21

Quantification of endocannabinoids 2-AG and AEA in animal organs and human fluids by GC/MS/MS
Author(s): YH Lin, AR Alvheim, NM Salem, JD Loewke, AW Baca, A Macherone, JR Hibbeln

NIAAA

NEURO-22

Age and Alzheimer's Disease Pathology Related Impairment of the Regional Cerebral Blood Flow Response to Mitochondrial KATP Channel Activation in Mouse Models
Author(s): Dong Liu, JongH Lee, Mark Mattson

NIA

NEURO-23

Better Late than Never – the Role of Basal Forebrain Inhibition in Successful and Failed Stopping in the Stop Signal Task
Author(s): JD Mayse, G Nelson, I Avila, M Gallagher, SC Lin

NIA

NEURO-24

Chronic clozapine administration, unlike mood stabilizers, does not block NMDA- and D2-like receptor-mediated brain signaling via arachidonic acid in rats
Author(s): H R Modi, E Ramadan, M Basellin, L Chang, M Chein, K Ma, SI Rapoport

NIA

NEURO-25

Varenicline effects on Striatum activation to Alcohol salience Cues in heavy Drinkers
Author(s): R Momenan, M Coe, S Barlett, DW Hommer, M Heilig, VA Ramchandani

NIAAA

NEURO-26

Looming animate and inanimate threats: The response of the amygdala and periaqueductal gray
Author(s): ZT Nolan, DS Coker-Anniah, SF White, RI Clanton

NIMH

NEURO-27

Gray matter structural abnormalities are found in adults with social anxiety disorder	NIMH	NEURO-28
Author(s): BA Orionzi, GL Wallace, IW Eisenberg, RJR Blair, A Martin, KS Blair		

The Three NITRC's: Software, Data and Cloud Computing for Brain Science and Cancer Imaging Research	NIBIB	NEURO-29
Author(s): N Preuss, V Pai, D Kennedy, C Haselgrove, R Buccigrossi, K Pohland, A Crowley, J Grethe		

Sleep abnormalities in a mouse model of Fragile X Syndrome	NIMH	NEURO-30
Author(s): RM Reith, CB Smith		

Using infrared fluorescent protein (iRFP) for monitoring and modulating neuronal activity	NIDA	NEURO-31
Author(s): CT Richie, LR Whitaker, LV Fortuno, HA Baldwin, DB Howard, JJ Hinkle, YJ Zhang, MA Verdecia, BT Hope, BK Harvey		

Lipid profile changes in traumatic brain injury using MALDI imaging and electrospray ionization mass spectrometry	NIDA	NEURO-32
Author(s): A Roux, K Baldwin, M Muller, S Jackson, D Barbacci, A Schultz, B Cox, AS Woods		

The expression level of transgenic alpha-synuclein correlates with the severity of Parkinsonian phenotypes in mice	NIA	NEURO-33
Author(s): C Sgobio, J Yu, G Liu, Y Mateo, DM Lovinger, H Cai		

Antidepressant effects on serotonin 1A/1B receptors in a rat model of depression with genetic and environmental vulnerabilities	NIMH	NEURO-34
Author(s): S Shrestha, D Pine, D Luckenbaugh, K Varnas, I Henter, R Innis, A Mathe, P Svenningsson		

Into the island: a new technique of non-invasive cortical stimulation to address Insula Role in Drug Addiction	NIAAA	NEURO-35
Author(s): PA Spagnolo, H Wang, M Hallet, M Heilig		

Functional Characterization of a glutamate transporter point mutation associated with Obsessive-Compulsive Disorder	NIMH	NEURO-36
Author(s): D Torres-Salazar, PR Moya, SG Amara		

MRI of congenital arteriovenous malformation in Wistar rats: the effect of altering diffusion tensor imaging in accessing white matter integrity	CC	NEURO-37
Author(s): TW Tu, LC Turtzo, JD Lescher, DD Dean, RA Williams, JA Frank		

Mechanisms of glutamate transporter trafficking in response to amphetamine	NIMH	NEURO-38
Author(s): SM Underhill, SG Amara		

Punishing unfairness: Rewarding or the organization of a reactively aggressive response? Author(s): MR VanTieghem, SF White, SJ Brislin, S Sinclair, RJ Blair	NIMH	NEURO-39
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Elimination of raphe oxytocin receptor expression: effects on maternal behavior, aggression and serotonergic fibers and implications for sex differences in oxytocin-serotonin interactions Author(s): S K Williams, J H Pagani, W S Young III	NIMH	NEURO-40
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Neto auxiliary proteins regulate NMDA receptor subunits at mossy fiber synapses onto CA3 pyramidal spines Author(s): MS Wyeth, KA Pelkey, RS Petralia, MW Salter, RR McInnes, CJ McBain	NICHD	NEURO-41
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Aldehyde dehydrogenase 1 determines the regional selectivity of nigral dopaminergic neuron loss in Parkinson's disease Author(s): J Yu, JH Ding, CS Xie, LX Sun, G Rudow, HB Cai	NIA	NEURO-42
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Searching for genetic variants affecting brain connectivity Author(s): Z C Hommer, C A Hodgkinson, E A Stein, D Goldman	NIAAA	NEURO-43
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Poster Session III

Tuesday, October 08, 2013 — 12:00 p.m. – 2:00 p.m. — FAES Academic Center (Upper-Level Terrace)

Non-invasive multimodal optical imaging for monitoring the treatment outcome in patients with Kaposi Sarcoma Author(s): A Afshari, Y Ardeshirpour, M Polizzotto, K Wyvill, K Aleman, K Waldon, L Najafizadeh, R Yarchoan, A Gandjbakhche	NICHD	BIOENG-1
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PET Quantification in the Presence of Attenuation Correction Errors Caused by MR Coils Author(s): MA Ahlman, R Maass-Moreno, S Liu, DA Bluemke	CC	BIOENG-2
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Characterization of Autism Spectrum Disorders (ASD) using near infrared spectroscopy (NIRS) to study cognitive brain function Author(s): AA Anderson, V Chernomordik, F Amyot, F Chowdhry, AH Gandjbakhche	NICHD	BIOENG-3
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Infrared imaging reveals differential vascular post-occlusive response in sickle cell anemia Author(s): MD Antalek, ML Seidel, TP Darlington, K Chang, A Ikeda, C Seamon, G Kato, H Ackerman, AM Gorbach	NIBIB	BIOENG-4
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In-vivo fluorecence lifetime imaging for monitoring the efficacy of the cancer treatment Author(s): Y Ardeshirpour, V Chernomordik, M Hassan, R Zielinski, J Capala, AH Gandjbakhche	NICHD	BIOENG-5
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Quantitative imaging of biological structures in the electron microscope using elastic and inelastic scattering Author(s): MA Aronova, AA Sousa, RD Leapman	NIBIB	BIOENG-6
Biomechanical markers of multidrug resistance Author(s): A Bhirde, A Jin, G Niu, X Chen	NIBIB	BIOENG-7
Targeted homing of mesenchymal stem cells (MSC) by noninvasive pulsed-focused-ultrasound improves the protective and regenerative capabilities of MSC during cisplatin-induced acute tubular necrosis in mice Author(s): SR Burks, BA Nguyen, PA Tebebi, A Ziadloo, SJ Kim, V Frenkel, JA Frank	CC	BIOENG-8
Detecting retroperitoneal lymphadenopathy on CT scans using multi-cue kernel density estimators Author(s): KM Cherry, S Wang, RM Summers	CC	BIOENG-9
Real time monitoring of cellular response to targeted therapy using quartz crystal microbalance with dissipation monitoring Author(s): BV Chikkaveeraiah, A Bhirde, A Jin, X Chen	NIBIB	BIOENG-10
Atomic Force Microscopy: A versatile tool for biology Author(s): E K Dimitriadis	NIBIB	BIOENG-11
Biomedical Engineering and Physical Science Shared Resource Author(s): HS Eden, PH Brown, EK Dimitriadis, AM Gorbach, HR Kalish, NY Morgan, GF Zhang	NIBIB	BIOENG-12
Even Illumination Multi-Angle Total Internal Reflection Fluorescence Microscopy Author(s): Y Fu, G H Patterson	NIBIB	BIOENG-13
Optimized 3D sodium imaging of the human heart on a 3T scanner Author(s): ND Gai, CE Rochitte, MS Nacif, DA Bluemke	CC	BIOENG-14
Surface plasmon resonance (SPR) biosensor study of biomolecular interactions Author(s): Inna Gorshkova	NIBIB	BIOENG-15
Improved measurement of brain deformation during mild acceleration using tagged MRI with a novel double trigger Author(s): AK Knutsen, E Magrath, J Zhou, R Gullapalli, JE McEntee, JL Prince, PV Bayly, JA Butman, DL Pham	CC	BIOENG-16
In the clutches of Maxwell's demon: below-equilibrium DNA topology simplification by type II topoisomerases Author(s): TR Litwin, SK Sarkar, AH Hardin, IJ Holt, KC Neuman	NHLBI	BIOENG-17

<p>A Computer-Aided Detection System for Prostate Cancer using Multimodal Magnetic Resonance Imaging</p> <p>Author(s): P Liu, S Wang, B Turkbey, K Grant, P Pinto, B Wood, P Choyke, R Summers</p>	CC	BIOENG-18
<p>Microfabricated structures for biology</p> <p>Author(s): NY Morgan, JS Yoon</p>	NIBIB	BIOENG-19
<p>Computer-Aided Detection of Epidural Masses in Computed Tomography using a Constrained Gaussian Mixture Model Framework</p> <p>Author(s): s Pattanaik, j Liu, J Yao, W Zhang, EB Turkbey, RM Summers</p>	CC	BIOENG-20
<p>A new TIRF single molecule calibration</p> <p>Author(s): A Popescu-Hategan</p>	NINDS	BIOENG-21
<p>A New Directionality Tool Reveals Muscle Microtubule Pattern Alterations</p> <p>Author(s): E Ralston</p>	NIAMS	BIOENG-22
<p>Tools for the Quantitative Analysis of Sedimentation Boundaries Detected by Fluorescence Optical Analytical Ultracentrifugation</p> <p>Author(s): P Schuck, E Casillas, H Shroff, GH Patterson, H Zhao</p>	NIBIB	BIOENG-23
<p>Multimodality longitudinal imaging of tissue remodeling in a murine hindlimb ischemia model</p> <p>Author(s): Z Sun, G Tong, L Lang, G Niu, X Chen</p>	NIBIB	BIOENG-24
<p>Toward measuring transition paths for RNA folding with single molecule FRET</p> <p>Author(s): K Truex, HS Chung, J M Louis, W A Eaton</p>	NIDDK	BIOENG-25
<p>Faster, Smaller, Cleaner: Customized microfluidic platforms for chemotaxis studies</p> <p>Author(s): JS Yoon, CE Petrie Aronin, T Prustel, M Meier-Schellersheim, RN Germain, NY Morgan</p>	NIBIB	BIOENG-26
<p>Scalable synthesis of C-9 functionalized phenylmorphans as probes for narcotic receptor mediated phenomena</p> <p>Author(s): J F Antoline, J L Deck, K C Rice, A E Jacobson</p>	NIDA	CHEMCELL-1
<p>Plasma membrane translocation of trimerized Mixed Lineage Kinase Domain-like protein (MLKL) is requisite for TNF-induced necrosis</p> <p>Author(s): Z Cai, S Jitkaew, J Zhao, H Chiang, S Choksi, Y Ward, L Wu, Z Liu</p>	NCI	CHEMCELL-2
<p>Functional importance of localized ribosomal protein translation</p> <p>Author(s): S F Clatterbuck Soper, S Mili</p>	NCI	CHEMCELL-3

<p>The effect of mitochondrially-targeted compounds mitoquinone and mitotempol on genomic DNA integrity and the potential impact on cell survival</p> <p>Author(s): TA Denison, VA Rao</p>	FDA/CBER	CHEMCELL-4
<p>IL-6 induced epigenetic change promotes a mast cell hyper-responsive phenotype</p> <p>Author(s): AN Desai, MY Jung, AM Gilfillan, MA Beaven, DD Metcalfe</p>	NIAID	CHEMCELL-5
<p>Hypercoagulability associated with increased von Willebrand Factor secretion from vascular endothelium by elevated NaCl: possible mechanism for increased risk of thrombosis caused by dehydration</p> <p>Author(s): NI Dmitrieva, MB Burg</p>	NHLBI	CHEMCELL-6
<p>NMII forms a contractile transcellular sarcomeric network to regulate apical cell junctions and tissue geometry</p> <p>Author(s): S Ebrahim, T Fujita, BA Millis, E Kozin, X Ma, S Kawamoto, MA Baird, M Davidson, S Yonemura, Y Hisa, MA Conti, RS Adelstein, H Sakaguchi, B Kachar</p>	NIDCD	CHEMCELL-7
<p>Fanconi Anemia Protein FANCM Promotes Replication Traverse of DNA Interstrand Crosslinks</p> <p>Author(s): J Huang, S Liu, M Bellani, AK Thazhathveetil, C Ling, JP de Winter, Y Wang, W Wang, MM Seidman</p>	NIA	CHEMCELL-8
<p>Disposition and kinetics of Tetrabromobisphenol A in female Wistar-Han rats</p> <p>Author(s): GA Knudsen, JM Sanders, AM Sadik, LS Birnbaum</p>	NCI	CHEMCELL-9
<p>Plk1 promotes disengagement and reduplication of structurally immature procentrioles</p> <p>Author(s): D Kong, J Loncarek</p>	NCI	CHEMCELL-10
<p>Regulated secretion of high molecular weight hyaluronan (HA) by Graves' disease orbital cells: a modified ELISA to measure HA production</p> <p>Author(s): CC Krieger, MC Gershengorn</p>	NIDDK	CHEMCELL-11
<p>Three-Dimensional Spot Detection in Ratiometric Fluorescence Imaging For Measurement of Subcellular Organelles</p> <p>Author(s): W Lau, C Johnson, S Lioi, J Mindell</p>	CIT	CHEMCELL-12
<p>Three-Dimensional Spot Detection in Ratiometric Fluorescence Imaging For Measurement of Subcellular Organelles</p> <p>Author(s): WW Lau, C Johnson, R Kuo, S Lioi, JA Mindell</p>	CIT	CHEMCELL-13
<p>Arf guanine nucleotide-exchange factors BIG1 and BIG2 regulate non-muscle myosin IIA activity by anchoring myosin phosphatase complex</p> <p>Author(s): K Le, C Li, G Ye, J Moss, M Vaughan</p>	NHLBI	CHEMCELL-14

<p>Upregulation of voltage-gated calcium channels and oxidative stress in Pompe disease</p> <p>Author(s): JA Lim, N Raben</p>	NIAMS	CHEMCELL-15
<p>Modulation of metastatic propensity of triple-negative breast cancer cells harboring p53 mutations</p> <p>Author(s): BL Morrison, F Bernal</p>	NCI	CHEMCELL-16
<p>Parkin overexpression and glucose deprivation induce selection against different types of pathological mitochondrial DNA mutations</p> <p>Author(s): CL Nezich, DJ Ives, RJ Youle, IJ Holt</p>	NINDS	CHEMCELL-17
<p>NIH Common Fund Single Cell Analysis Program: research opportunities to define cell "states" and cell-to-cell variation</p> <p>Author(s): CK Ng, RS Conroy, AC Beckel-Mitchener</p>	NIMH	CHEMCELL-18
<p>Extranuclear DNA: A Normal Phenomenon or an Indication of Pathology?</p> <p>Author(s): AJ Ogilvy, DF Shen, Y Wang, CC Chan, M Abu-Asab</p>	NEI	CHEMCELL-19
<p>Rational design of sulfonated A3 adenosine receptor-selective nucleosides as pharmacological tools to study chronic neuropathic pain</p> <p>Author(s): S Paoletta, DK Tosh, A Finley, ET Gizewski, SM Moss, ZG Gao, JA Auchampach, D Salvemini, KA Jacobson</p>	NIDDK	CHEMCELL-20
<p>Interplay between Fanconi Anemia Pathway and DNA Damage Response induced by DNA Interstrand Crosslinks</p> <p>Author(s): M Paramasivam, MM Seidman</p>	NIA	CHEMCELL-21
<p>A short synthetic peptide that mimics apolipoprotein-A1 mobilizes globotriaosylceramide and cholesterol in Fabry disease fibroblasts</p> <p>Author(s): UH Schueler Hoffman, CR Kaneski, N Dwyer, S Demosky, J Blanchette-Mackie, J Hanover, RO Brady, A Remaley</p>	NIDDK	CHEMCELL-22
<p>Synthetic route optimization and optical resolutions of hydrocodone congeners for opioid dependence studies</p> <p>Author(s): BR Selfridge, JR Deschamps, AE Jacobson, KC Rice</p>	NIDA	CHEMCELL-23
<p>Centriole disengagement in the absence of microtubules</p> <p>Author(s): AK Shukla, J Loncarek</p>	NCI	CHEMCELL-24
<p>Covalent capture and identification of novel protein binding partners using an azide-tagged, photo-reactive stapled alpha helical p53 peptide</p> <p>Author(s): AL Whiting, KM Headley, JJ Mitala, Jr, BL Morrison, KA Murray, F Bernal</p>	NCI	CHEMCELL-25
<p>Physical activity and sedentary behaviors in relation to the risk of progression from gestational diabetes to type 2 diabetes</p>	NICHD	EPIG-1

progression from gestational diabetes to type 2 diabetes: a prospective cohort study

Author(s): W Bao, DK Tobias, K Bowers, FB Hu, A Vaag, J Chavarro, LG Grunnet, J Mills, A Liu, M Kiely, C Zhang

Cancer Epidemiology in Consortia Network Research

NCI

EPIG-2

Author(s): EC DeRycke, H Cheung, B Kaminski, M Burgio, K Collie, M Jue, C Johnson, MJ Khoury, D Seminara

Comorbidity of mental and medical disorders among adolescents with ADHD from the U.S. population

NIMH

EPIG-3

Author(s): N Jameson, BS, S Gau, MD, PhD, JP He, MS, T Lateef, MD, KR Merikangas, PhD

Occupational Trichloroethylene Exposure and Risk of Lymphatic and Hematopoietic Cancers: A Meta-Analysis

NCI

EPIG-4

Author(s): S Karami, B Bassig, PA Stewart, K-M Lee, N Rothman, LE Moore, Q Lan

Impact of HIV Subtype on Performance of the Limiting Antigen-Avidity Enzyme Immunoassay, the BioRad Avidity Assay, and the BED Capture Immunoassay in Rakai, Uganda

NIAID

EPIG-5

Author(s): AF Longosz, D Serwadda, F Nalugoda, G Kigozi, V Franco, RH Gray, TC Quinn, SH Eshleman, O Laeyendecker

CYP2E1 potentiates binge-alcohol-induced gut leakiness, steatohepatitis and apoptosis

NIAAA

PHARM-1

Author(s): MA Abdelmegeed, A Banerjee, SH Y, SW Jang, FJ Gonzalez, A Keshavarzian, BJ Song

A fungal protease allergen directly enhances airway smooth muscle cell contraction

NIAID

PHARM-2

Author(s): N Balenga, M Zhao, JA Jude, RA Panettieri, Jr, KM Druey

Zidovudine (AZT) promotes hepatic lipid accumulation through increased oxidative and endoplasmic reticulum stress

NIAAA

PHARM-3

Author(s): A Banerjee, MA Abdelmegeed, S Jang, BJ Song

A monoclonal antibody to a steroidal endogenous Na/K-ATPase ligand, marinobufagenin, reverses expression of pro-fibrotic genes in aged rats

NIA

PHARM-4

Author(s): O V Fedorova, V Shilova, V Zernetkina, Y Zhang, CA Marshall, E Lehrmann, KG Becker, EG Lakatta, AY Bagrov

Direct bioluminescent imaging of ABCG2 function at the blood-brain barrier using the specific substrate D-luciferin

NCI

PHARM-5

Author(s): MD Hall, J Bakhsheshian, B-R Wei, RM Simpson, MM Gottesman

4-Alkyloxyimino-Cytosine Nucleotides: Tethering Approaches to Molecular Probes for the P2Y6 Receptor

NIDDK

PHARM-6

Author(s): P S Jayasekara, M O Barrett, C B Ball, K A Brown, E Kozma, S Costanzi, L Squarcialupi, R Balasubramanian, H Maruoka, K A Jacobson

Development of antagonist molecular probes of the P2Y14 G protein-coupled receptor Author(s): EA Kiselev, S Paoletta, M Barrett, TK Harden, KA Jacobson	NIDDK	PHARM-7
Resveratrol and curcumin enhance pancreatic beta-cell function by inhibiting phosphodiesterase activity Author(s): MD Rouse, JM Egan	NIA	PHARM-8
[11C]CUMI-101, a positron emission tomographic radioligand, behaves as a serotonin 1A receptor antagonist and also binds to alpha1A receptors in brain Author(s): S Shrestha, JS Liow, S Lu, K Jenko, R Gladding, P Svenningsson, C Morse, S Zoghbi, V Pike, R Innis	NIMH	PHARM-9
New Steroidal Alkaloids from the Marine Sponge Corticium niger that Inhibit Growth of Human Colon Carcinoma Cells Author(s): SN Sunassee, T Ransom, CJ Heinrich, JB McMahon, KR Gustafson	NCI	PHARM-10
Enhancing Project Management Tracking to Facilitate the Protocol Development Process Author(s): SM Albert, SL Kopka, TJ Miller, LA Timmer, MF Galcik, DG Chaitt, JF Pierson	NIAID	RSCHSUPP-1
Protein IDs from of Silver stained gel bands AND Post digestion labeling based relative quantitation for up to three samples - Two Analysis Offerings available to the NIH community from NIDDK Advanced Mass Spectrometry Core Facility Author(s): D E Anderson, J R Lloyd, N F Whittaker	NIDDK	RSCHSUPP-2
NHLBI Animal MRI Core Author(s): SA Anderson	NHLBI	RSCHSUPP-3
SAIC-Frederick Pathology/Histotechnology Core Laboratory (PHL) Author(s): M Anver, T Beachley, K Benauer, B Butcher, W Custer, L Dutko, S Florea, Y Golubeva, B Gouker, D Green, D Haines, X Hao, J Krolus, J Matta, T Morgan, G Rivera, R Smith, P Snowden, A Warner, L Sternberg	NCI	RSCHSUPP-4
The Bench-to-Bedside (B2B) Program: Connecting the Clinical Center's past and future Author(s): CD Bell, H Haleem-Smith, PI Piringer	CC	RSCHSUPP-5
FaceMatch: visual search by photos of missing persons during a disaster event Author(s): E Borovikov, S Vajda, G Lingappa, S Candemir, S Antani, M Gill, G Thoma	NLM	RSCHSUPP-6
The NIH 3D Printing Exchange: a virtual collection of biomedical 3D printing files and tutorials Author(s): MF Coakley, MN Weber, E Fincher, J Swan, D Chen, T	NIAID	RSCHSUPP-7

Cutting Edge Microscopy in the NHLBI Light Microscopy Facility Author(s): CA Combs, DA Malide, X Wu	NHLBI	RSCHSUPP-8
Research and Development Support Opportunities Through the Frederick National Laboratory for Cancer Research Author(s): B Crise, J Cherry, W Hubert, J Hartman, A Frydl, C Samples, D Nissley, G Mitra, L Feigenbaum, J Collins, M Porter	NCI	RSCHSUPP-9
NHLBI Electron Microscopy Core Facility Author(s): MP Daniels, PS Connelly, CA Brantner	NHLBI	RSCHSUPP-10
Fully Automated Cell Culture System Increases the Efficiency and Consistency of Arterivirus Plaque Assays Author(s): NM Deiuliis, S Mazur, K Lamberton, SL Agar, DL Freeburger, J Kuhn, JM Michelotti	NIAID	RSCHSUPP-11
Non-traditional careers in science: technology transfer & business development Author(s): SM Ferguson	OD	RSCHSUPP-12
Partnering with Extramural Investigators to Foster Clinical Research Collaborations Author(s): CA Fisher, P Piringer, C Bell, J Simmons, E Hayunga, FP Ognibene	CC	RSCHSUPP-13
Student training and fellowship opportunities at the National Cancer Institute at Frederick and the Frederick National Laboratory for Cancer Research Author(s): A Frydl, J Hartman, L Gwatkin, C Keenan, M Porter	NCI	RSCHSUPP-14
Integrated Strategic Project Management Framework (ISPMF): Achieving Program Success by Optimizing Resources in Clinical Research Author(s): J Giri, CK Osborne, L Lambert, J Pierson, J Tierney, B Baseler	NIAID	RSCHSUPP-15
Clinical research informatics: Policies and standards supporting data integration in multi-site clinical trials and data re-use within large research warehouses Author(s): V Huser, X Pan, JJ Cimino	CC	RSCHSUPP-16
Mass spectrometry analyses within the CCR collaborative protein technology resource Author(s): LM Jenkins	NCI	RSCHSUPP-17
Small Animal Imaging Program (SAIP), Frederick National Laboratory for Cancer Research Author(s): JD Kalen, M Bernardo, PL Choyke, PZ Grodzinski, LV Ileva, KL Komschlies, N Patel, LA Riffle, JL Tatum	NCI	RSCHSUPP-18

<p>The BSP CCR Genetics Core—A complete solution for CCR investigators' research needs</p> <p>Author(s): BD Kessing, G Nelson, J Lautenberger, CE McIntosh, M Thompson, M McNally, H McMillan, R Johnson, J Troxler, R Raziuddin</p>	NCI	RSCHSUPP-19
<p>NIH Mouse Imaging Facility - a multi-modal animal imaging facility for the intramural NIH research community</p> <p>Author(s): BA Klaunberg, MJ Lizak, HD Morris, JP Munasnghe, D J DesPres, VM Diaz, DR Donohue</p>	NINDS	RSCHSUPP-20
<p>NCI Policy and Compliance Programs in Support of Research: Risk Management, PRA/OMB Clearance, and Records Management</p> <p>Author(s): L Larson, A Jackson, V Horovitch-Kelley</p>	NCI	RSCHSUPP-21
<p>CC/RADIS ResearchPACS</p> <p>Author(s): R L Levin, D Hines, J Plum</p>	CC	RSCHSUPP-22
<p>The Genetic and Rare Diseases Information Center (GARD): Eleven years of improving access to hard-to-find genetic and/or rare diseases information and resources</p> <p>Author(s): J Lewis, M Snyder, H Hyatt-Knorr</p>	NCATS	RSCHSUPP-23
<p>A survey of the rules for interrupting or ending subjects' participation in clinical trials for reasons of safety</p> <p>Author(s): TH Mainprize, NJ Aprill, BA Eagel</p>	NIAID	RSCHSUPP-24
<p>Toward GMP-compatible derivation of human induced pluripotent stem cells</p> <p>Author(s): BS Mallon, Y Shi, S Civini, M Sabatino, D Stroncek, PG Robey</p>	NINDS	RSCHSUPP-25
<p>NIA Nonhuman primate core</p> <p>Author(s): JA Mattison, KL Vaughan</p>	NIA	RSCHSUPP-26
<p>CCR FLUORESCENCE MICROSCOPY CORE FACILITY (LRBGE, Building 41)</p> <p>Author(s): JG McNally, TS Karpova</p>	NCI	RSCHSUPP-27
<p>Translating biospecimen science research results to improved biospecimen practices</p> <p>Author(s): HM Moore, KB Engel, SR Greytak, BP Bass, J Vaught</p>	NCI	RSCHSUPP-28
<p>Informed consent for re-use of stored specimens and data in intramural NIH clinical research</p> <p>Author(s): X Pan, V Huser, EJ Ayres, JJ Cimino</p>	NLM	RSCHSUPP-29
<p>NHLBI Biophysics Core Facility</p> <p>Author(s): G Piszczek</p>	NHLBI	RSCHSUPP-30

The Functional MRI Facility Author(s): V Roopchansingh, S Marrett, SJ Inati, E Condon, J Ebron, K Kan, M Montequin, S Moore, P Rowser, J Yeager, D van Tassel, R Maccado, J Naegele, PA Bandettini	NIMH	RSCHSUPP-31
NHLBI Murine Phenotyping Core Author(s): DA Springer, A Noguchi, M Allen	NHLBI	RSCHSUPP-32
The Neurotherapeutics Development Unit of NINDS Translational Neuroscience Center: Core activities Author(s): J P Steiner, M Bachani, K Mather, M J Vaal, R Babu, A Nath	NINDS	RSCHSUPP-33
A NIAID Approach to Sponsor Responsibilities under 21CFR 312.32 (b) Author(s): Karen Sweeney, Barry Egel, Marc Teitelbaum, Debbi Hissey, Kelly Cahill	NIAID	RSCHSUPP-34
Best Practices for the Stabilization and Isolation of Biomolecules from Fresh Frozen and Fixed Histological Preparations Author(s): A Warner, Y Golubeva, B Gouker, R Smith, J Matta, L Sternberg	NCI	RSCHSUPP-35
A review of techniques used for rapidly systematizing experimental request processes in NIAID laboratories using Microsoft InfoPath forms and SharePoint workflows Author(s): N Weber, J Barnett, L Zhang, Y Huyen	NIAID	RSCHSUPP-36
Metrics for assessing the Quality of Value Sets in Clinical Quality Measures Author(s): R Winnenburg, O Bodenreider	NLM	RSCHSUPP-37
Keep up with new discoveries through My Journal Shelf Author(s): S Xirasagar, M Lenardo, R Kaur, D Kaminsky, J Ning, Y Huyen	NIAID	RSCHSUPP-38
Automated, High-Throughput Imaging Systems in NIAMS Light Imaging Section Enhance Data Collection for Now and for the Future Author(s): KJM Zaal, A Milgroom, E Ralston	NIAMS	RSCHSUPP-39
Trans-NIH Electron Microscopy Shared Facility Author(s): G Zhang, V Speransky	NIBIB	RSCHSUPP-40
The importance of safer practices and equipment when working with sharps in the laboratory or clinic Author(s): SA Ziegler, AA Capul, SU Blakeney	OD	RSCHSUPP-41

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Basic research, multiple implications: An analysis of the NIH OppNet portfolio
 Author(s): WN Elwood, R Roberts, KM Kulinowski, SH Jonas

OD

BEHAV-1

Eye Gaze Abnormalities in Youths at Familial Risk during Emotional Face Labeling
 Author(s): DE Hsu, J Stoddard, P Kim, J Arizpe, V Razdan, C Deveney, MA Brotman, J Blair, D Pine, C Baker, E Leibenluft

NIMH

BEHAV-2

Frequency of positive indicators of profile invalidity in a sample of mild traumatic brain injury (mTBI) subjects: a preliminary report
 Author(s): KC Lopez, S Levy, J Dsurney

CC

BEHAV-3

Incentive sensitivity of children with anxiety on the Piñata task, a child-friendly version of the monetary incentive delay task
 Author(s): DK Rosen, CO Carlisi, RC Plate, DS Pine, M Ernst

NIMH

BEHAV-4

The relationship of the stress and burden of cancer caregiving with health behaviors and risk of cardiovascular disease
 Author(s): A Ross, L Yang, L Wehren, S Klagholz, M Bevans

CC

BEHAV-5

SCORHE: A system for automated video-based assessment of activity and behavior for mice housed in a home-cage environment
 Author(s): GH Salem, J Krynsky, B Kirkland, E Lin, M Garmendia-Cedillos, S Pajevic, J Malley, J Dennis, T Furusawa, T Deng, M Bustin, JP Gillet, MM Gottesman, A Sowers, JB Mitchell, TJ Pohida

CIT

BEHAV-6

Personality and expectancy measures predict rates of intravenous (IV) alcohol self-administration in social drinkers
 Author(s): BL Stangl, M Zametkin, V Vatsalya, VA Ramchandani

NIAAA

BEHAV-7

Increased intrasubject variability in reaction time in unaffected preschoolers at familial risk for bipolar disorder
 Author(s): JY Yi, NE Adleman, CM Deveney, A Guyer, D Pine, E Leibenluft, MA Brotman

NIMH

BEHAV-8

Epigenetics of Chromosomal Breakage Sites and Translocations
 Author(s): B Burman, RC Burgess, Z Zhang, JD Lieb, T Misteli

NCI

CHROM-1

The NCBI Epigenomics database
 Author(s): IM Fingerman, X Zhang, N Husain, GD Schuler

NLM

CHROM-2

H3K4 mono-/di-methyltransferase MLL4 marks adipogenic enhancers and controls adipocyte differentiation
 Author(s): J Lee, C Wang, S Xu, W Peng, K Ge

NIDDK

CHROM-3

3' Regulatory Regions (3'RR) in the human IgH locus show a complex mixture of insulator and enhancer properties Author(s): FC Mills, RM Bernstein, V Arudchandran, B Cail, D McLeod, Y Sumathipala, EE Max	FDA/CBER	CHROM-4
Pat1 regulates kinetochore function by modulating the topological structure of centromeric chromatin Author(s): PK Mishra, AR Ottmann, MA Basrai	NCI	CHROM-5
A role for RNA polymerase II tracking in β -globin locus transcriptional regulation Author(s): JH Oum, A Nguyen, A Dean	NIDDK	CHROM-6
Stretch enhancers drive cell-specific gene regulation and harbor human disease risk variants Author(s): SCJ Parker, ML Sitzel, DL Taylor, JM Orozco, MR Erdos, JA Akiyama, KL van Beuren, PS Chines, N Narisu, BL Black, A Visel, LA Pennacchio, FS Collins	NIGMS	CHROM-7
The methyltransferase WHSC1 links transcription elongation to HIRA-mediated histone H3.3 deposition Author(s): N Sarai, K Nimura, T Tamura, T Kanno, MC Patel, T Heightman, K Ura, K Ozato	NICHD	CHROM-8
Enhancer commissioning by H3K4 methyltransferase MLL4 regulates ES cell pluripotency and cell reprogramming Author(s): C Wang, S Xu, JE Lee, YW Cho, T Macfarlan, K Cui, C Liu, W Peng, K Ge	NIDDK	CHROM-9
CG hypomethylation in Lsh ^{-/-} MEFs is associated with de novo H3K4me1 formation Author(s): W Yu, V Briones, R Lister, C McIntosh, Y Han, J Ren, M Terashima, E Lee, R Leighty, JR Ecker, K Muegge	NCI	CHROM-10
The Informed Consent Process from the Monitor's Perspective: Expectations, Best Practices, and Site Corrective and Preventative Actions Author(s): E Annum, R Cox, K Watkins	NIAID	CLIN-1
Proliferation rates assessed by [18F]-fluorothymidine (FLT) PET is low and does not reflect glucose metabolism assessed by [18F]-fluorodeoxyglucose (FDG) PET in paragangliomas Author(s): EM Blanchet, C Millo, V Martucci, M Merino, P Herscovitch, K Pacak	NICHD	CLIN-2
Mapping Cartilage Proteoglycans Ex-vivo using a Clinical MRI System Author(s): M Bouhrara, DA Reiter, H Celik, V Lukas, KW Fishbein, RG Spencer	NIA	CLIN-3
Improved assessment of macromolecular composition in articular cartilage with magnetic resonance through use multidimensional relaxation experiments Author(s): H Celik, M Bouhrara, D A Reiter, K W Fishbein, R G	NIA	CLIN-4

Relationship of Vascular Inflammation and Cardiometabolic Risk Factors: The Psoriasis Atherosclerosis Cardiometabolic Disease Initiative Author(s): J Dave, K Sonti, S Rose, H Naik, M Playford, B Lockshin, P Herscovitch, N Mehta	NHLBI	CLIN-5
Data quality of open source extraction software unified with data repository in computed tomography (CT) radiation dose monitoring Author(s): VM Derderian, JW Siegelman, T Cook, S Rath, EC Jones, C Lee, LR Folio	CC	CLIN-6
Is Pre-Assisted Reproductive Technolgy (ART) Myomectomy Cost-Effective (CE) In Women with Intramural (IM) Fibroids? Author(s): K Devine, M Egbuniwe, S Mumford, AY Armstrong	NICHD	CLIN-7
Is Pre-Assisted Reproductive Technology (ART) Hysteroscopic Myomectomy (HM) Cost-Effective (CE) in Women with Submucous (SM) Fibroids? Author(s): K Devine, S Mumford, J Segars, AY Armstrong	NICHD	CLIN-8
Evidence for Genetic Heterogeneity in Neurofibromatosis type 2 Associated Multilobular Vestibular Schwannoma Author(s): R Dewan, A Pemov, P Chittiboina, X Wang, AR Asthagiri	NINDS	CLIN-9
Increase in BMI from normal weight to overweight in a sample of healthy research volunteers from 1976 to 2012 Author(s): M DiVito, L Moyer, A Rossinoff, C Royster, T Psota, A Courville, K Zambell, E Ayres	CC	CLIN-10
Ghrelin Levels and Fatigue Intensification in Men Receiving Localized Radiation Therapy Author(s): KA Filler, N Lukkahatai, LN Saligan	NINR	CLIN-11
Hormonal Evaluation Of Patients With Sickle Cell Disease Who Underwent Allogeneic Hematopoietic Stem Cell Transplantation Author(s): H Gharwan, MM Hsieh, M Link, W Coles, CD Fitzhugh, JF Tisdale	NCI	CLIN-12
PAX6 haploinsufficiency: pineal hypoplasia, reduced melatonin, & sleep disturbance Author(s): AE Hanish, JA Butman, F Thomas, J Yao, AE Huey, MD Lee, E Yin, LA Hunter, MD Hicks, T Singh, M Tsang, JC Han	NICHD	CLIN-13
The Simplified SART Embryo Scoring System is Highly Correlated to Implantation and Live Birth in Single Blastocyst Transfers Author(s): RJ Heitmann, MJ Hill, KS Richter, AH DeCherney, EA Widra	NICHD	CLIN-14

Weekly EZN-2208 (PEGylated SN-38) in Combination with Bevacizumab in Patients with Refractory Solid Tumors Author(s): W Jeong, S Park, A Rapisarda, M Eugeni, R Kinders, A Chen, G Melillo, B Turkbey, JH Doroshow, S Kummar	NCI	CLIN-15
Auditory processing phenotype of neurofibromatosis type I Author(s): L Lancaster, K King, C Zalewski, HJ Kim, P Wolters, S Martin, A Gillespie, E Dombi, B Widemann, C Brewer	NIDCD	CLIN-16
The relationship between physical activity, functional performance, and fatigue in sarcoidosis Author(s): N Lukkahatai, K Filler, LN Saligan	NINR	CLIN-17
Acromegaly with concurrent ACTH secretion: Cushing syndrome masked by acromegaly Author(s): C Lyssikatos, M Quezado, C A Stratakis	NICHD	CLIN-18
Classification of Alzheimer Diagnosis from ADNI Plasma Biomarker Data Author(s): J Mo, C Johnson, H Cheung, S Siddiqui, BM Martin, SR Maudsley	CIT	CLIN-19
National Cancer Informatics Program (NCIP) Annotation and Image Markup (AIM) Software Tools for Clinical and Research Use Author(s): P Mongkolwat, V Kleper, S Talbot, D Pham, J Butman	NCI	CLIN-20
Longitudinal clinical outcomes of children with severe mood dysregulation (SMD) Author(s): E J Reeves, C M Deveney, R E Hommer, M A Brotman, A Stringaris, E Leibenluft	NIMH	CLIN-21
Environmental Factors Associated with Clinical and Autoantibody Phenotypes in Juvenile Idiopathic Inflammatory Myopathies Author(s): LG Rider, M Shah, G Mamyrova, L, Vegosen, L Wu, TP O'Hanlon, AV Jansen, MM Rice, IN Targoff, FW Miller	NIEHS	CLIN-22
The impact of anxiety on neural activation during the dot-probe task in adolescents Author(s): EG Ronkin, DS Pine, JC Britton	NIMH	CLIN-23
Vascular Inflammation in Patients with Psoriasis and Psoriatic Arthritis is Associated with Sacroiliitis by FDG-PET/CT: A Pilot Study Author(s): SM Rose, J Dave, K Sonti, MP Playford, NN Mehta	NIAMS	CLIN-24
Anticytokine Autoantibodies in Rheumatic Diseases Author(s): LB Rosen, IP Tatouli, HM Moutsopoulos, S Hasni, RM Siegel, SM Holland, SK Browne	NIAMS	CLIN-25
Inner ear specific, noninvasive sound therapy to prevent ototoxic drug induced hearing loss: A preclinical study Author(s): S Roy, MM Duda, A Bhat, TS Fitzgerald, J	NIDCD	CLIN-26

Usability of Medical Resource Search Tools and Internet Search Engines in Retrieving Answers to Clinical Queries Author(s): RF Sarmiento, F Liu, P Fontelo	NLM	CLIN-27
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Differences in skin vasomotion between patients with sickle cell anemia and healthy volunteers: a laser speckle imaging study Author(s): ML Seidel, TP Darlington, MD Antalek, A Ikeda, C Seamon, H Ackerman, AM Gorbach	NIBIB	CLIN-28
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Comprehensive vestibular assessment in Usher syndrome: genotype/phenotype correlations Author(s): T Wafa, J Schultz, C Zalewski, K King, A Turiff, A Griffith, T Friedman, W Zein, C Brewer	NIDCD	CLIN-29
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Logic Modeling for the Development of Performance Indicators in the NIAID Division of Clinical Research Author(s): S Weiss, L McNay	NIAID	CLIN-30
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Validation of A Targeted Next-generation Sequencing Cancer Panel for Clinical Use Author(s): L Xi, TH Pham, MO Evbuomwan, T Pham, WT Navarro, M Raffeld	NCI	CLIN-31
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Pathogenic studies of Systemic Capillary Leak Syndrome Author(s): Z Xie, CC Ghost, K Terai, S Iwaki, A Sek, R Patel, C Nelson, L Wisch, M Young, AZ Dudek, PR Greipp, SM Parikh, KM Druey	NIAID	CLIN-32
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Nitric oxide synthase gene expression in patients with Non-alcoholic Fatty Liver evidence Author(s): S Abey, A Del Valle-Pinero, A Martino, W Henderson	NINR	GEN-1
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Network Analysis of Human Common Complex Diseases Author(s): KG Becker, Z Ashour, S De, Y Zhang	NIA	GEN-2
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The role of the cohesin complex in pre-DSB pairing during mammalian meiosis Author(s): KA Boateng, RD Camerini-Otero	NIDDK	GEN-3
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Comparative Validation of the D. melanogaster modENCODE transcriptome annotation Author(s): ZX Chen, D Sturgill, CJ Qu, H Jiang, S Park, N Boley, AM Suzuki, AR Fletcher, D Plachetzki, P FitzGerald, C Artieri, J Atallah, O Barmina, JB Brown, K Blankenburg, A Dasgupta, S Gubbala, SE Celniker, B Oliver, S Richards	NIDDK	GEN-4
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RNAi knockdown of RAD51 in mouse testicular cells reveals its role in meiotic homologous recombination in mammals Author(s): J Dai, RD Camerini-Otero	NIDDK	GEN-5
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Human active site nsSNV-containing genes have yeast orthologs with active site and pathway conservation: validation and analysis of potential for targeted metabolomics and diagnostics Author(s): HM Dingerdissen, P Karp, D Weaver, A Vertes, V Simonyan, R Mazumder	FDA/CBER	GEN-6
The NICHD Zebrafish Core at One Year: a Focus on Reverse Genetics Author(s): B Feldman	NICHD	GEN-7
Phenotypic characterization of an allelic variant of the mechanistic target of rapamycin (Mtor) Author(s): J M Gary, W DuBois, S Zhang, K Zhang, J K Simmons, D Tran, S Lynch, A Michalowski, B Mock	NCI	GEN-8
The Office of Cancer Genomics – Building resources for precision cancer medicine Author(s): EJ Gillespie, S Behrman, MJ Stine, JM Guidry Auvil, M Ferguson, JC Zenklusen, DS Gerhard	NCI	GEN-9
CCR Genomics Core Author(s): K Hartman, P Johnson, S Shema, V Bliskovsky, S Thorgeirsson	NCI	GEN-10
Selective modulation of neuroimaging intermediate phenotypes by schizophrenia risk genes Author(s): KE Healy, R Rasetti, Q Chen, X Cheng, B Kolachana, JH Callicott, KF Berman, VS Mattay, DR Weinberger	NIMH	GEN-11
UGENE NGS: The next step in a next generation sequencing bioinformatics toolkit Author(s): R Henderson, O Golosova, A Gabrielian, Y Vaskin, V Nagarajan, A Oler, M Quiñones, D Hurt, G German, M Leerkes, D Kandrov, Y Huyen	NIAID	GEN-12
Making the Most of GEO Data: Query and Analysis Tools Author(s): M Holko, C Evangelista, IF Kim, P Ledoux, H Lee, K Marshall, K Phillippy, N Serova, PM Sherman, A Soboleva, M Tomashevsky, SE Wilhite, A Yefanov, N Zhang, T Barrett	NLM	GEN-13
Clone discovery algorithm for high-throughput sequencing data Author(s): K Karagiannis, V Simonyan, K Chumakov	FDA/CBER	GEN-15
Similar Post-UV Cell Survival of Fibroblasts from Photosensitive and non-Photosensitive Trichothiodystrophy Patients with Defects in the DNA Helicase XPD Gene Author(s): S G Khan, J Boyle, T Ueda, D Tamura, J J DiGiovanna, K H Kraemer	NCI	GEN-16
Unbiased Segregation of Fission Yeast Chromosome 2 Strands to Daughter Cells Author(s): A Klar, M Bonaduce	NCI	GEN-17

<p>MLV integration site selection is driven by a subset of strong enhancers and active promoters</p> <p>Author(s): MC LaFave, GK Varshney, DE Gildea, TG Wolfsberg, AD Baxeavanis, SM Burgess</p>	NHGRI	GEN-18
<p>Lack of close similarity between the Noble rat and common inbred laboratory rat strains</p> <p>Author(s): JA Lautenberger, RC Johnson, CE McIntosh, GW Nelson, Y Yang, AO Perantoni</p>	NCI	GEN-19
<p>DNA copy number evolution in 19 Drosophila cell lines</p> <p>Author(s): H Lee, CJ McManus, D Cho, M Eaton, F Renda, M Patrizia-Somma, L Cherbas, G May, S Powell, D Zhang, L Zhan, A Resch, J Andrews, SE Celniker, P Cherbas, TM Przytycka, M Gatti, B Oliver, B Graveley, D MacAlpine</p>	NIDDK	GEN-20
<p>Targeted lentiviral vector integration at "safe harbor" genomic loci</p> <p>Author(s): PJ Li, M Marino, J Reiser</p>	FDA/CBER	GEN-21
<p>Targeted lentiviral vector integration at "safe harbor" genomic loci</p> <p>Author(s): PJ Li, M Marino, J Reiser</p>	FDA/CBER	GEN-22
<p>Protein kinase A (PKA) RIIα knockout mice are resistant to diet-induced obesity</p> <p>Author(s): E London, O Gavrilova, M Nesterova, E Szarek, C A Stratakis</p>	NICHD	GEN-23
<p>Genome-wide RNAi screening at the NIH</p> <p>Author(s): SE Martin, E Buehler, Y Chen, C Klumpp-Thomas, P Ormanoglu</p>	NCATS	GEN-24
<p>Utilizing HIVE: High-Performance Integrated Virtual Environment in Next-Generation High-Throughput Sequencing Analysis of mRNA in Schizophrenia</p> <p>Author(s): O Muravitskaja, H Dingerdissen, R Mazumder, T Postolache, V Simonyan</p>	FDA/CBER	GEN-25
<p>Mice and ES cells for Phenotyped Mammalian Gene Knockouts Are Available from the KOMP Repository: http://www.komp.org/</p> <p>Author(s): RR O'Neill, P de Jong, KC Lloyd</p>	OD	GEN-26
<p>NeuroX: a powerful genotyping platform for amyotrophic lateral sclerosis and other neurological disease</p> <p>Author(s): HA Pliner, AE Renton, MA Nalls, G Marangi, E Errichiello, S Arepalli, C Letson, CW Edsall, MF Keller, JR Gibbs, JO Johnson, Y Abramzon, DG Hernandez, AB Singleton, BJ Traynor</p>	NIA	GEN-27
<p>A high-resolution genome-wide map of meiotic double-strand breaks in humans</p> <p>Author(s): F Pratto, K Brick, P Khil, F Smagulova, G Petukhova, RD Camerini-Otero</p>	NIDDK	GEN-28

HOST GENES REQUIRED FOR INTEGRATION OF Tf1, A LONG TERMINAL REPEAT (LTR) RETROTRANPOSON OF SCHIZOSACCHAROMYCES POMBE Author(s): S Rai, Henry Levin	NICHD	GEN-29
Consanguineous Pakistani families reveal new loci in a complex genetic trait: stuttering Author(s): MH Raza, E Paris, E Sainz, R Amjad, S Riazuddin, D Drayna	NIDCD	GEN-30
Establishment of immortalized gba1 mouse cortical neurons - What can we learn from this model? Author(s): M Siebert, R Tamargo, R Burnett, B Berhe, N Tayebi, W Westbroek, E Sidransky	NHGRI	GEN-31
Expanding the repertoire of mutations amenable to identification by whole-genome sequencing Author(s): H E Smith, S Yun, M Krause	NIDDK	GEN-32
Speed Congenics Services at Frederick National Laboratory for Cancer Research Author(s): Mei-C Tseng, Wang Hsieh, Lione Feigenbaum	NCI	GEN-33
High-performance Integrated Virtual Environment (HIVE) for Next-Generation Sequencing Analysis Infrastructure Author(s): Alin Voskanian, Anton Golikov, Raja Mazumder, Vahan Simonyan	FDA/CBER	GEN-34
The association of a functional polymorphism in CNR1 with alcohol withdrawal in a treatment-seeking alcoholic sample Author(s): J Yan, ML Schwandt, H Sun, DW Hommer, DT George, M Heilig, VA Ramchandani	NIAAA	GEN-35
Cardiovascular Disease Network Author(s): C Yao, B Chen, R Joehanes, AD Johnson, Tx Huan, JE Freedman, PJ Munson, D Levy	NHLBI	GEN-36
Nitric Oxide Synthase Substrate Availability in Severe Malaria Author(s): MS Alkaitis, H Wang, HC Ackerman	NIAID	MICROBIO-1
CD40L at the interface of the innate and adaptive immune responses Author(s): ND Bushar, JA Ragheb, EM Gertz, A Schaffer	FDA/CBER	MICROBIO-2
Malaria Infection Depletes Hepatic DDAH1, a Regulator of Endothelial Nitric Oxide Synthesis Author(s): JH Chertow, MS Alkaitis, G Nardone, H Ackerman	NIAID	MICROBIO-3
Legionella pneumophila VipD is a Rab5-activated phospholipase A1 Author(s): AH Gaspar, M Lucas, AL Rojas, A Hierro, MP Machner	NICHD	MICROBIO-4

<p>Sensitive Europium Nanoparticle Based Time Resolved Fluorescence Immunoassay (ENIA) Assay Development for Detection of HIV-TB Co-infection</p> <p>Author(s): MK Haleyur Giri Setty, SA Vemula, A Chunduri, EP Bulagonda, P Zhang, J Liu, B Du, JR Yarochana, AD Redd, M Vermeulen, TC Quinn, IK Hewlett</p>	FDA/CBER	MICROBIO-5
<p>A Resource To Study Virus Genes (In The Human Intestinal Tract, And Everywhere Else)</p> <p>Author(s): DM Kristensen, AR Mushegian, EV Koonin</p>	NLM	MICROBIO-6
<p>The Human Malaria Parasite Pfs47 Gene Mediates Evasion of the Mosquito Immune System</p> <p>Author(s): A Molina-Cruz, LS Garver, A Alabaster, L Bangiolo, A Haile, J Winikor, C Ortega, BCL van Schaijk, RW Sauerwein, E Taylor-Salmon, C Barillas-Mury</p>	NIAID	MICROBIO-7
<p>Measuring erythrocyte surface-anchored PfEMP1 levels among progeny from a 3D7 x HB3 Plasmodium falciparum genetic cross</p> <p>Author(s): AT Neal, LC Ranford-Cartwright, CI Newbold, RM Fairhurst</p>	NIAID	MICROBIO-8
<p>Selection on codon usage and amino acid sequences in prokaryotes</p> <p>Author(s): W Ran, DM Kristensen, EV Koonin</p>	NLM	MICROBIO-9
<p>Genome-wide siRNA screens detect a requirement for the IKK complex in vaccinia virus infection</p> <p>Author(s): G Sivan, S Martin, E Buehler, TG Myers, KH Szymczyk, B Moss</p>	NIAID	MICROBIO-10
<p>Efficient Multiplex Safe Harbor Gene-Targeting and Recombinase-Mediated Cassette Exchange in Human iPSCs</p> <p>Author(s): T Cerbini, Y Luo, M Rao, J Zou</p>	NIAMS	STEMCELL-1
<p>The NHLBI iPSC and Genome Engineering Core Facility</p> <p>Author(s): G Chen, C Liu</p>	NHLBI	STEMCELL-2
<p>The NHLBI iPSC and Genome Engineering Core Facility</p> <p>Author(s): G Chen, C Liu</p>	NHLBI	STEMCELL-3
<p>Gene-targeting and Animal Model Unit, iPSC and Genome Engineering Core, Center for Molecular Medicine, NHLBI</p> <p>Author(s): Y Du, W Xie, C Liu</p>	NHLBI	STEMCELL-4
<p>Using a neuron and astrocyte co-culture system to model cell interactions in Niemann-Pick type C</p> <p>Author(s): A Efthymiou, MS Rao, NS Malik</p>	NIAMS	STEMCELL-5
<p>Role for cholesterol/Wnt interactions in balancing pluripotency and neural differentiation</p>	NICHD	STEMCELL-6

Author(s): KR Francis, AN Ton, CA Wassif, HJ Westphal, FD Porter

IFN-gamma causes aplastic anemia by altering HSC composition and interrupting lineage differentiation
Author(s): F Lin, B Saleh, DL Hodge, K Boelte, T Chan, M Karwan, JP Keller, HA Young

NCI **STEMCELL-7**

Generation of GFP report lines using home-made AAVS1-specific TALENs in hiPSCs
Author(s): Y Luo, T Cerbini, MS Rao, J Zou

NIAMS **STEMCELL-8**

Gas regulates Wnt/ β -catenin and Hh signaling in mesenchymal stem cell fate choices under homeostasis and disease
Author(s): D Malhotra, JB Regard, J Gvozdenovic-Jeremic, M Josey, M Chen, LS Weinstein, J Lu, EM Shore, FS Kaplan, Y Yang

NHGRI **STEMCELL-9**

Clonal analysis of hematopoietic stem and progenitor cells marked by five fluorescent proteins using confocal and multiphoton microscopy
Author(s): D Malide, J-Y Metais, CE Dunbar

NHLBI **STEMCELL-10**

Detection of genetic alteration events by ionizing radiation in human embryonic stem cells via next-generation sequencing
Author(s): V Nguyen, IG Panyutin, IV Panyutin, RD Neumann

CC **STEMCELL-11**

Characterization of responses of human embryonic stem cells to low, clinical diagnostic relevant, doses of ionizing radiation
Author(s): MV Sokolov, V Nguyen, RD Neumann

CC **STEMCELL-12**

Quantitative Measurement of Photoreceptor Outer Segment Phagocytosis by Retinal Pigment Epithelium Cells derived from Induced Pluripotent Stem Cells through Flow Cytometry
Author(s): RS Villasmil, O Memon, J Laux, S Miller, K Bharti

NEI **STEMCELL-13**

Derivation of Neural Stem Cells from Human Adult Peripheral CD34+ Cells for Neuroinflammation Study
Author(s): T Wang, E Choi, MC Monaco, E Campanac, M Medynets, T Do, P Rao, KR Johnson, AG Elkahloun, G Von Geldern, T Johnson, S Subramaniam, D Hoffman, E Major, A Nath

NINDS **STEMCELL-14**

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Poster Session V

Wednesday, October 09, 2013 — 2:00 p.m. – 4:00 p.m. — FAES Academic Center (Upper-Level Terrace)

A procedure for evaluating models of structures with flexible loops
Author(s): H Bai, CH Tai, B Lee

NCI **COMPBIO-1**

BLAST+: Powerful Applications for Sequence Analysis Author(s): GM Boratyn, C Camacho, A Fong, N Ma, TL Madden	NLM	COMPBIO-2
Identification of early replicating fragile sites that contribute to genome instability Author(s): RB Faryabi, JH Barlow, E Callen, R Casellas, L Staudt, O Fernandez-Capetillo, A Nussenzweig	NCI	COMPBIO-3
Beta-cell Compensation: Form Follows Function Author(s): Joon Ha, Les Satin, A Sherman	NIDDK	COMPBIO-4
Prediction of Deleterious Point Mutations of Disease-Related Proteins: Case Study of Hemophilia and Coagulation Factors Author(s): N Hamasaki-Katagiri, R Salari, A Wu, Y Qi, T Schiller, AC Filiberto, EF Schisterman, AA Komar, TM Przytycka, C Kimchi-Sarfaty	FDA/CBER	COMPBIO-5
HTSAptamotif - Identification and Analysis of Aptamer Families using HT-SELEX Data Author(s): J Hoinka, A Berezhnoy, ZE Sauna, E Gilboa, TM Przytycka	NLM	COMPBIO-6
Computational modeling of the hypervariable region (HVR) of K-Ras4B protein Author(s): H Jang, N Tarasova, V Gaponenko, R Nussinov	NCI	COMPBIO-7
DAVID-WS: A stateful web service to facilitate gene/protein list analysis Author(s): X Jiao, BT Sherman, DW Huang, R Stephens, MW Baseler, HC Lane, RA Lempicki	NIAID	COMPBIO-8
Comparing the Performance of Man and Machine for TB Screening in Chest Radiographs Author(s): A Karargyris, L Folio, J Siegelman, F Callaghan, S Candemir, Z Xue, P-X Lu, Y-X Wang, S Antani, G Thoma, S Jaeger	NLM	COMPBIO-9
A Combined Approach for Lung Boundary Segmentation of Chest X-Ray Images Author(s): A Karargyris, S Candemir, S Jaeger, Z Xue, S Antani, G R Thoma	NLM	COMPBIO-10
SBR-Blood: A systems biology repository to profile changes during blood cell differentiation process Author(s): J Lichtenberg, DM Bodine	NHGRI	COMPBIO-11
Patient Specific Tumor Growth Prediction Using Multimodal Images Author(s): Y Liu, SM Sadowski, AB Weisbrod, E Kebebew, RM Summers, J Yao	CC	COMPBIO-12
An Interactive Region-Of-interest (ROI)-Based Image Retrieval	NLM	COMPBIO-13

Approach of Biomedical Articles in a Local Concept-Based
Feature Space

Author(s): M M Rahman, SK Antani, D Demner-Fushman, GR
Thoma

HIVE-SEQ: Sequence Processing/Manipulation Tool of
FastA/FastQ Files

Author(s): LV Santana-Quintero, H Dingerdisen, K Karagiannis,
V Simonyan

FDA/CBER COMPBIO-14

Molecular Modeling of STAT5a tetramers

Author(s): BK Sathyanarayana, WJ Leonard, BK Lee

NCI COMPBIO-15

PSEUDOMARKER 2.0: efficient computation of likelihoods using
NOMAD

Author(s): AA Schaffer, EM Gertz, T Hiekkalinna, S Le Digabel, C
Audet, JD Terwilliger

NLM COMPBIO-16

Using a latent variable approach to integrate next generation
sequencing data from epigenomics and transcriptomics studies

Author(s): K Shen, M Leerkes, D Hurt

NIAID COMPBIO-17

Comparison of transformation, normalization and testing choices
in a protein microarray analysis pipeline

Author(s): J Skinner, PD Crompton

NIAID COMPBIO-18

Assessing single-nucleotide polymorphism using the KPGP-38
Human Genomes next-generation sequencing data from CAMDA

Author(s): V Soika, W Zhang, J Shen, J Meehan, Z Su, W Ge, H
Fang, R Perkins, H Hong, W Tong, V Simonyan

FDA/CBER COMPBIO-19

A computational approach to the investigation of aggregation
prone regions in serine protease inhibitors

Author(s): C Stuart, W Gwizdala, J Niewczas, W Jong, D Scott, E
Marszal

FDA/CBER COMPBIO-20

A mathematical model for glucagon secretion from alpha cells

Author(s): M A Watts, A S Sherman

NIDDK COMPBIO-21

A System for Automated Screening for Tuberculosis using Digital
Chest X-rays for Resource-Constrained Regions

Author(s): Z Xue, S Jaeger, A Karargyris, S Candemir, S Antani,
R Long, GR Thoma, C McDonald

NLM COMPBIO-22

Robust gene selection and committee of single gene classifiers
for breast cancer survival prediction

Author(s): H H Yang, M P Lee

NCI COMPBIO-23

Models and algorithms for detecting DNA copy number variation
using next generation sequencing

Author(s): k Ying, ZD Wang, N Hansen, R Shen, JC Mullikin

NHGRI COMPBIO-24

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Machine learning classification of cell-specific cardiac enhancers uncovers developmental subnetworks regulating progenitor cell division and cell fate specification Author(s): S M Ahmad, B W Busser, D Huang, E J Cozart, S Michaud, X Zhu, N Jeffries, A Aboukhalil, M L Bulyk, I Ovcharenko, A M Michelson	NHLBI	DEVBIO-1
Evolving paradigms in gamete recognition and induction of sperm acrosome exocytosis during mice and human fertilization Author(s): MA Avella, B Baibakov, J Dean	NIDDK	DEVBIO-2
COUP-TFII: a new player in the dimorphic establishment of the male and female reproductive tracts in the mouse embryo Author(s): HL Franco, M-J Tsai, SY Tsai, HHC Yao	NIEHS	DEVBIO-3
Thyroid hormone-mediated adrenal regression/remodeling Author(s): J Huang, D Forrest	NIDDK	DEVBIO-4
Two-step process of sympathetic innervation in the developing heart Author(s): I Onitsuka, J Hatch, Y Uchida, Y Mukouyama	NHLBI	DEVBIO-5
3-O-sulfated heparan sulfate expands the Kit ⁺ epithelial progenitor pool via FGFR2b-dependent proliferation Author(s): VN Patel, IM Lombaert, Y Xu, J Liu, MP Hoffman	NIDCR	DEVBIO-6
"Predictors of functional health outcomes among women living with HIV" Author(s): B Rahim-Williams, JA Erlen, KA Kim, WA Henderson	NCMHD	DEVBIO-7
Identification and characterization of DNA binding proteins necessary for epigenetic silencing by Polycomb group proteins Author(s): P Ray, J A Kassis	NICHD	DEVBIO-8
Addressing health disparities in HIV therapeutics: the experience of NIH and the Medicines Patent Pool Author(s): MA Rohrbach, SM Ferguson	OD	DEVBIO-9
CDP-diacylglycerol synthetase-controlled phosphoinositide availability limits VEGFA signaling and vascular morphogenesis Author(s): AN Stratman, W Pan, VN Pham, CM Mikelis, JS Gutkind, GE Davis, BM Weinstein	NICHD	DEVBIO-10
GLI-similar 3 maintains sexually dimorphic germ cell development in mouse embryos Author(s): EK Ungewitter, KN Lichti-Kaiser, AM Jetten, HH-C Yao	NIEHS	DEVBIO-11
Glucocorticoid-induced expression of the human α -fetoprotein gene in the fetal liver	NLM	DEVBIO-12

Single Cell Analysis of Endothelial Morphogenesis during Sprouting Angiogenesis Author(s): JA Yu, BM Weinstein	NICHD	DEVBIO-12
Cross-reactive influenza antibodies from lamprey Author(s): MO Altman, TR McKittrick, JW Stevens, JR Bennink, JW Yewdell, BR Herrin	NIAID	IMMUNO-1
Investigating the role of Apobec3 in immunoglobulin class switch recombination Author(s): AP Arudchandran, RM Bernstein, FC Mills, EE Max	FDA/CBER	IMMUNO-2
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Ultrastructural Evidence of Degranulation of Eosinophils During Transmigration of Arterioles in Murine Lung Following Bleomycin Author(s): PM Wang, WJ Martin II	NICHD	IMMUNO-29
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<p>Estradiol-like binding of brominated flame retardants to human estrogen sulfotransferase</p> <p>Author(s): RA Gosavi, GA Knudsen, LS Birnbaum, LC Pedersen</p>	NIEHS	STRUCTBIO-6
<p>Structural simulations and novel analysis pipelines on the ligand-binding domain of pathologic glucocorticoid receptors</p> <p>Author(s): DE Hurt, T Mayama, E Charmandari, T Kino, Y Huyen</p>	NIAID	STRUCTBIO-7
<p>A HORMA domain in Atg13 mediates PI 3-kinase recruitment in autophagy</p> <p>Author(s): CC Jao, MJ Ragusa, RE Stanley, JH Hurley</p>	NIDDK	STRUCTBIO-8
<p>Multi-tissue modeling analyzes pathophysiology of Type 2 Diabetes in MKR mice</p> <p>Author(s): A Kumar, T Harrelson, E Gallagher, D LeRoith, J Shiloach, MJ Betenbaugh</p>	NIDDK	STRUCTBIO-9
<p>Sphingosine-1-phosphate mediated chemotaxis of osteoclast precursors investigated using targeted proteomics via mass spectrometry</p> <p>Author(s): NP Manes, E An, VH Sjoelund, J Sun, BR Angermann, M Ishii, M Meier-Schellersheim, RN Germain, A Nita-Lazar</p>	NIAID	STRUCTBIO-10
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<p>Temporal phosphorylation dynamics analysis of TLR stimulation: role of MARCKS in TLR signaling</p> <p>Author(s): A Nita-Lazar, I Fraser</p>	NIAID	STRUCTBIO-12
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Dynamic interactions between CD4 and $\alpha 4\beta 7$ on primary CD4+ T cells indicate a novel coupling of these two costimulatory receptors Author(s): J Hiatt, D Van Ryk, N Patel, F Nawaz, C Schwing, S Ganesan, NC Okwara, D Wei, C Cicala, A Fauci, J Arthos	NIAID	VIROL-3
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Structural Informatics of influenza hemagglutinin antibody engagement Author(s): DM McCraw, AK Harris	NIAID	VIROL-6
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Competition and the origins of novelty: experimental evolution of the host range expansion of a virus Author: Lisa Bono	NGSRC	1.34
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Activating the 4-1BB pathway for Tumor Infiltrating Lymphocyte expansion for Adoptive Cell Therapy Author: Jessica Chacon	NGSRC	1.27
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2014 FARE Program and Award Ceremony

Tuesday, October 8, 2013

4:15 p.m. – 6:00 p.m. Masur Auditorium

The Fellows Award for Research Excellence (FARE) Program is in its 19th year of providing recognition for the outstanding scientific research performed by intramural fellows who have less than five years of research experience at NIH. Sponsored by the NIH Fellows Committee (Felcom), the NIH Scientific Directors and the OITE, this annual competition selects the top 25 percent of abstracts from 53 different study sections to receive a \$1,000 travel award. Winners use the travel award to present their research at a scientific meeting during the subsequent fiscal year.

The FARE competition attracted more than 1,000 applicants, representing nearly a third of all eligible graduate students, postdocs and clinical fellows throughout the institutes and centers of the NIH. All submitted abstracts underwent anonymous peer-review and were scored by a panel of judges from the applicant's chosen study section. This year 241 winners were selected to receive travel awards. Most FARE competition winners will present posters (marked by a blue ribbon) on their research during the NIH Research Festival. The FARE Subcommittee of FelCom thanks all participants and congratulates the winners.

We encourage all eligible intramural postdoctoral and clinical fellows to apply to the next FARE competition in Spring 2014.



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Special Exhibits on Resources for Intramural Research

Monday, October 7, 2013

11:30 a.m. – 1:00 p.m.

**Building 10 First-
floor Hallway**

4:00 p.m. – 6:00 p.m.

Wednesday, October 9, 2013

10:00 a.m. – 12:00 p.m.

**Building 10 First-
floor Hallway**

2:00 p.m. – 4:00 p.m.

Tuesday, October 8, 2013

12:00 p.m. – 2:00 p.m.

**Building 10 First-
floor Hallway**

Applied Biomedical Supercomputing on the NIH Helix Systems, CIT

The NIH Helix Systems (CIT) provides high-performance scientific computational resources, training, consulting, and collaboration for the intramural NIH community. Resources available to Helix users include:

- * Biowulf Linux cluster with 15,000 processors, very large memory systems (72-512 GB)
- * High-performance file systems
- * Dedicated staff to provide technical support

Applications supported on Helix Systems include:

- * Licensed products such as Matlab, Mathematica, and Gaussian
- * Web applications such as Galaxy, an interface to the Biowulf cluster
- * Computational chemistry
- * Molecular dynamics and structural biology
- * Next-generation sequence analysis and assembly
- * Linkage and phylogenetic analysis
- * Mathematical and statistical analysis
- * Image processing, proteomics, and more

<http://helix.nih.gov>

Bioviz in the Intramural Research Program and beyond

This booth will highlight the broad range of biomedical visualizations, animations and interactivity training and projects in the Intramural Research Program and beyond, as well as resources that are available to the scientific community in the IRP. Talk to representatives from the Bioviz Interest Group (<http://bvig.nichd.nih.gov>) and the Games for Science Interest Group (<http://games4science.nichd.nih.gov>). Learn about a wide range of visualization and animation challenges; learn about new ways of

publishing, and discover (yet another) community of geeks at the NIH, ready to push new boundaries.

<http://bvig.nichd.nih.gov>

CIT Training

CIT Training offers courses and seminars that enable users to make efficient and effective use of computers, networks, and information systems in their work at NIH. The training program is open to NIH employees and to all users of CIT computing facilities. CIT Training will provide an opportunity for NIH staff to register for seminars covering a variety of topics specifically catered for the NIH scientific community.

<http://training.cit.nih.gov>

FAES Graduate School at NIH

The FAES Graduate School at NIH offers nearly 200 courses each year from 13 different academic departments at both the graduate and undergraduate levels. FAES courses are certified by the Maryland Higher Education Committee and accepted for credit at most universities. The FAES Graduate School operates with the approval of the Maryland Higher Education Committee. Courses are open to members of the NIH community, other federal employees and the general public. Special advance study certificate programs are now offered in both technology transfer and public health.

<http://www.faes.org>

HHSignite (beta) NIH 3D Printing Exchange

The NIH 3D Printing Exchange is a new endeavor sponsored by the HHSignite (beta) program. This online resource is collaboration between team members from NIAID, NICHD, and NLM. It will be an authoritative, scalable database of 3D printing files for chemical & biologic structures. Our exhibit will showcase the latest developments in 3D printing technology and provide information on our project, which we expect to launch in early 2014.

<http://www.hhs.gov/open/initiatives/ignite/3d-printing-exchange.html>

Laboratory for Informatics Development

The NIH Biomedical Translational Research Information System (BTRIS) provides NIH researchers with self-service access to a repository of NIH clinical research data. BTRIS users can access identified data on their own active clinical protocols as well as de-identified data on all protocols from 1976 to present. This exhibit will offer hands-on demonstrations of BTRIS for those who have not yet experienced its benefits.

<http://www.btris.nih.gov>

National Cancer Institute at Frederick & Frederick National Laboratory for Cancer Research

The Frederick National Laboratory for Cancer Research is a Federally Funded Research and Development Center (FFRDC) operated by SAIC-Frederick, Inc. for the National Cancer Institute (NCI), part of the U.S. National Institutes of Health (NIH). The lab provides quick response capabilities and meets special long-term research and development needs for NCI that cannot be met as effectively by existing in-house or contractor resources. The FFRDC also supports other institutes of NIH and wide range of research collaborations and partnerships with third parties, consistent with NCI's mission. The Frederick National Lab is headquartered on the NCI Campus at Frederick, which is located within the perimeter of Fort Detrick in Frederick, Md., 50 miles north of Washington, D.C. View our organization page for information on other NCI operations in Frederick.

<http://frederick.cancer.gov/>

NCBI - CDD (Conserved Domain Database)

The Conserved Domain Database (CDD) at the National Center for Biotechnology Information (NCBI) is a collection of structure based multiple sequence alignments that represent ancient conserved domains. CDD provides annotation and tools for the rapid annotation of functional domains on protein and coding nucleotide sequences. In addition protein BLAST searches by default display the results of the CD-Search giving users a quick overview of the protein domains present. CDD includes high quality curated NCBI protein domain models as well as imported models from Pfam, SMART, TIGRFAM, and COG, combining data from several disjoint

resources. DELTA-BLAST, the latest in an arsenal of BLAST tools relies heavily on PSSMs generated from CDD and offers the most sensitive protein search to date, outperforming BLASTP, PSI-BLAST, and CS-BLAST. Currently, over 92% of proteins with known 3D structure and over 76% of proteins with defined source organism are annotated by CDD in NCBI's Entrez database, and about 13,000 functional sites have been recorded on close to 5000 domain models, almost half of which are supported by direct evidence observed in 3D structures of protein complexes.

<http://www.ncbi.nlm.nih.gov/cdd/>

NCI Technology Transfer Center

The NCI Technology Transfer Center (TTC) staff work closely with NIH investigators and outside parties to facilitate commercialization efforts to benefit public health. TTC staff negotiate transactional agreements with outside parties, including universities, pharmaceutical and biotechnology companies to ensure compliance with Federal statutes, regulations and the policies of the National Institutes of Health. The TTC provides a complete array of services to support technology development activities for the National Cancer Institute and the 10 other NIH Institutes and Centers served by TTC. TTC also reviews employee invention reports and makes recommendations to the NIH's Office of Technology Transfer (OTT) concerning filing of domestic and foreign patent applications. Our exhibit will help NIH employees understand why technology transfer is important and how they should be protecting the intellectual property developed within Federal Laboratories.

<http://ttc.nci.nih.gov>

NEMS Sustainable Laboratory Practices Working Group

The NEMS Sustainable Laboratory Practices Working Group and NIH Green Teams would like to have a special exhibit at the NIH Research Festival that showcases NIH efforts to green the laboratory and office environments at NIH. Many of the diseases that we research at NIH have been shown to have an environmental component. As a result, NIH has a unique responsibility to carefully consider the environmental impacts of our day-to-day activities. NIH is a leader in environmental stewardship, but we can do even better. Each of us must take simple actions to minimize our environmental impacts. The NIH Environmental Management System (NEMS) is a management tool that helps us identify our most pressing environmental issues, set goals to address those issues, and improve our environmental performance. As a part of NEMS, the NIH Goes Greener campaign was launched to challenge all NIH employees and contractors to conduct their activities in a more environmentally sound manner. The NIH Green Teams, set up by each institute, are working toward greening each institute in general, with special emphasis on office greening. The NEMS Sustainable Laboratory Practices Working Group has developed procedures and tools on how to green laboratory activities. The group has been focusing its efforts to promote the use of less-toxic chemicals, reduce the use of laboratory supplies that can potentially lead to an increase in the release of greenhouse gases into the atmosphere and endocrine system disrupting chemicals into our water, and promote energy use reduction activities in the laboratory. We also have a website tool where researchers can share their success stories.

<http://nems.nih.gov>

NIH Blood Bank

Information for Blood, Platelet, and Research donations at NIH will be available. Appointments can be scheduled along with eligibility questions and answers.

<http://bloodbank.nih.gov>

NIH CIVIL Program

Outreach table marketing the CIVIL program to the NIH community.

<http://hr.od.nih.gov/hrguidance/civil/default.htm>

NIH Intramural Research Program

The Intramural Research Program (IRP) is the internal research program of the National Institutes of Health (NIH), known for its synergistic approach to biomedical science. With 1,200 Principal Investigators and more than 4,000 Postdoctoral Fellows conducting basic, translational, and clinical research, the IRP is the largest biomedical research institution on Earth. The Exhibit will showcase some of the newly created sections of the NIH IRP website, including IRP Accomplishments, Principal Investigator profiles, and new Research in Action stories. We will also highlight the growing IRP social media presence and ways for people to engage with what's happening in the IRP.

<http://irp.nih.gov/>

NIH Office of Intramural Training & Education

The NIH Office of Intramural Training & Education (OITE) is a division of the Office of Intramural Research (OIR), Office of the Director (OD). Our mission is to enhance the training experience of students and fellows on all of the NIH campuses. We work closely with the training offices of the NIH institutes and centers to help trainees in the Intramural Research Program (IRP) develop scientific and professional skills that will enable them to become leaders in the biomedical research community. The Intramural Research Program is the sum of all the research projects carried out by NIH investigators and trainees in NIH facilities. We provide services to multiple groups: current trainees in the programs in the NIH IRP; potential applicants to training programs at the NIH; investigators and staff at the NIH; trainees and investigators outside the NIH (in the extramural community).

<https://www.training.nih.gov>

NIH Transfer Agreement Dashboard

The NIH Transfer Agreement Dashboard (TAD) System A Material Transfer Agreement (MTA) is a contract that governs the transfer of tangible research materials between two organizations. The NIH Office of Intramural Research, in conjunction with the NIH Center for Information Technology (CIT) and the NIH technology transfer community, launched an enterprise-wide, Web-based MTA management system – the Transfer Agreement Dashboard (TAD) – that accomplishes the following: • Improves the processing of MTAs through automation • Reduces the paperwork burden of Intramural and Extramural researchers • Allows the IC's Technology Development Coordinators to ensure that MTAs are being executed in accordance with internal NIH policy guidelines • Provides NIH leadership with key metrics concerning the use of NIH research materials by both Intramural and Extramural laboratories TAD is available to all NIH ICs free of charge, and all NIH researchers and technology transfer staff are encouraged to take advantage of this Intramural Research Program resource to facilitate the MTA process. Visit this exhibit booth to see the TAD system (<http://techtransferagreements.nih.gov>) in action, and feel free to contact the TAD Support Team at NIHTADSupport@mail.nih.gov with any questions.

<https://techtransferagreements.nih.gov>

NIH-NITAAC

NITAAC is a federal Executive Agent authorized by the Office of Management and Budget (OMB) to administer three Government-Wide Acquisition Contracts (GWACs) for information technology procurement. CIO-SP3, CIO-SP3 Small Business and ECS III can be used by any federal civilian or DoD agency to acquire information technology products, services and solutions. The office is housed within HHS at the National Institutes of Health Information Technology Acquisition and Assessment Center (NITAAC).

<http://www.nitaac.nih.gov>

Office of Cyber Infrastructure and Computational Biology (OCICB) Bioinformatics and Computational Biosciences Branch (BCBB)

The Bioinformatics and Computational Biosciences Branch (BCBB) supports the NIAID research mission by leveraging the latest computational technologies to accelerate discovery and remain at the forefront of today's rapid scientific pace. The BCBB partners with clients in the research process by applying bioinformatics and computational biology methods to generate new hypotheses and data, analyze existing data, and ultimately elevate the use of these methods and resources throughout the NIH. The branch is organized into three sections based on expertise: Office of the Chief, Computational Biology Section, and Bioinformatics Development Section. Staff consist of an integrated team of computational biology specialists, bioinformatics software developers, and operations support staff.

<http://www.niaid.nih.gov/about/organization/odoffices/omo/ocicb/Pages/bcbb.aspx>

Office of Research Services

Office of Research Services, OD The Office of Research Services (ORS) provides a comprehensive portfolio of services to support the biomedical research mission of the NIH. Some examples of the diverse services ORS provides include: laboratory safety, security and emergency response, veterinary resources, the NIH Library, events management, travel and transportation, visual arts and multimedia, relevant services for foreign scientists, and many more programs and employee services to enrich and enhance the NIH worksite.

<http://www.ors.od.nih.gov/Pages/home.aspx>



General Schedule of Events

Opening Plenary Session

Concurrent Symposia Sessions

Poster Sessions

National Graduate Student
Research Conference

FARE Award Ceremony

Special Exhibits on Resources for
Intramural Research

**TSA Research Festival Exhibit
Show**

Clinical Center Tours

Research Festival Committees

Past Research Festivals

Technical Sales Association (TSA) Research Festival Exhibit Tent Show

Thursday, October 10, 2013

Friday, October 11, 2013

9:30 p.m. – 3:30 p.m.

Parking Lot 10H

9:30 p.m. – 2:30 p.m.

Parking Lot 10H

The Technical Sales Association (TSA) sponsors the popular Research Festival Exhibit Tent show. A large group of exhibitors will display state-of-the-art equipment supplies and services by leading regional and national biomedical research suppliers. There is no cost to attend the exhibit, but it is recommended that you pre-register online to avoid the long on-site registration lines. To register, please visit: <http://www.gtpmgt.com>. To view a list of confirmed exhibit booths please visit: <http://www.gtpmgt.com/attendees.php?id=4>.



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- Daniel Kastner, Scientific Director, NHGRI
- Michael M. Gottesman, Deputy Director for Intramural Research, NIH
- Richard Wyatt, Executive Director, Office of Intramural Research, OD

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